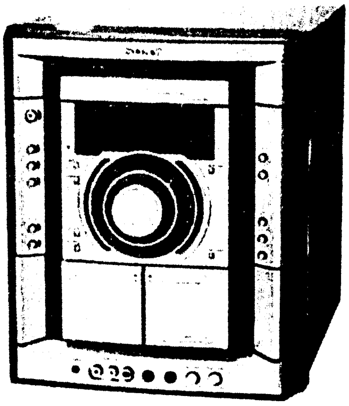
HCD-GNZ7D/GNZ8D/GNZ9D

SERVICE MANUAL

Ver. 1.0 2005. 04

E Model
HCD-GNZ7D/GNZ8D/GNZ9D
Australian Model
HCD-GNZ9D



(Photo: HCD-GNZ7D)

- HCD-GNZ7D/GNZ8D/GNZ9D are the tuner, deck, DVD and amplifier section in MHC-GNZ7D/GNZ8D/GNZ9D.

DVD Section	Model Name Using Similar Mechanism	NEW
	DVD Mechanism Type	CDM74HF-DVBU101//C
	Optical Pick-up Name	KHM-310CAB/C2NP
Tape Deck Section	Model Name Using Similar Machanism	NEW

SPECIFICATIONS

Amplifier section

HCD-GNZ9D

The following measured at AC 120, 127, 220, 230 – 240 V, 50/60 Hz

Continuous RMS power output (reference)

Front speaker: 115 + 115 watts (6 ohms at 1 kHz, 10% THD)

Center speaker: 50 watts (6 ohms at 1 kHz, 10% THD)

Surround speaker: 50 + 50 watts (6 ohms at 1 kHz, 10% THD)

Subwoofer: 170 watts (4 ohms at 100 Hz, 10% THD)

HCD-GNZ8D

The following measured at AC 120, 127, 220, 230 – 240 V, 50/60 Hz

Continuous RMS power output (reference)

Front speaker: 100 + 100 watts (6 ohms at 1 kHz, 10% THD)

Center speaker: 40 watts (6 ohms at 1 kHz, 10% THD)

Surround speaker: 40 + 40 watts (6 ohms at 1 kHz, 10% THD)

HCD-GNZ7D

The following measured at AC 120, 127, 220, 230 – 240 V, 50/60 Hz

Continuous RMS power output (reference)

100 + 100 watts (6 ohms at 1 kHz, 10% THD)

Inputs

VIDEO/SAT IN (audio) (phono jacks): voltage 450/250 mV, impedance 47 kilohms

VIDEO INPUT VIDEO (phono jack): 1 Vp-p, 75 ohms

VIDEO INPUT AUDIO (phono jacks): voltage 250 mV, impedance 47 kilohms

MIC1/MIC2 (phone jack): sensitivity 1 mV, impedance 10 kilohms

Outputs

VIDEO/SAT OUT (audio) (phono jacks): voltage 250 mV, impedance 1 kilohm

VIDEO OUT (phono jack): max. output level 1 Vp-p, unbalanced, Sync negative, load impedance 75 ohms

S-VIDEO OUT (4-pin/mini-DIN jack): Y: 1 Vp-p, unbalanced, Sync negative, C: 0.286 Vp-p, load impedance 75 ohms

COMPONENT VIDEO OUT: Y: 1 Vp-p, 75 ohms PB, PR: 0.7 Vp-p, 75 ohms

– Continued on next page –

DVD DECK RECEIVER

9-879-622-01
2005D0479-1
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Sony Corporation
Audio Group
Published by Sony Engineering Corporation

SONY®

DIGITAL OPTICAL OUT (Square optical connector jack, rear panel) (HCD-GNZ7D only)

Wavelength	660 nm
PHONES (stereo mini jack):	accepts headphones of 8 ohms or more

Disc player section

System	Compact disc and digital audio and video system
Laser	Semiconductor laser (DVD: λ=650 nm, CD: λ=790 nm) Emission duration: continuous
Frequency response	DVD (PCM 48 kHz): 2 Hz – 22 kHz (±1 dB) CD: 2 Hz – 20 kHz (±1 dB)
Video color system format	Latin American model: NTSC Other models: NTSC, PAL

Tape deck section

Recording system	4-track 2-channel stereo
Frequency response	40 – 13,000 Hz (±3 dB), using Sony TYPE I cassette

Tuner section

FM stereo, FM/AM superheterodyne tuner

FM tuner section

Tuning range	87.5 – 108.0 MHz (50-kHz step)
Antenna	FM lead antenna
Antenna terminals	75 ohm unbalanced
Intermediate frequency	10.7 MHz

AM tuner section

Tuning range	
Latin American models:	530 – 1,710 kHz (with the interval set at 10 kHz) 531 – 1,710 kHz (with the interval set at 9 kHz)
Saudi Arabian model:	531 – 1,602 kHz (with the interval set at 9 kHz)
Other models:	531 – 1,602 kHz (with the interval set at 9 kHz) 530 – 1,710 kHz (with the interval set at 10 kHz)
Antenna	AM loop antenna
Antenna terminals	External antenna terminal
Intermediate frequency	450 kHz

General

Power requirements	
Australian model:	230 – 240 V AC, 50/60 Hz
Saudi Arabian model:	120 – 127 V, 220 V or 230 – 240 V AC, 50/60 Hz Adjustable with voltage selector
Indian model:	220 – 240 V AC, 50/60 Hz
Mexican model:	127 V AC, 60 Hz
Thai model:	220 V AC, 50/60 Hz
Other models:	120 V, 220 V or 230 – 240 V AC, 50/60 Hz Adjustable with voltage selector

Power consumption	
MHC-GNZ9D	400 watts
MHC-GNZ8D	280 watts
MHC-GNZ7D	210 watts

Dimensions (w/h/d)	
MHC-GNZ9D	Approx. 280 × 326 × 400 mm
MHC-GNZ8D/GNZ7D	Approx. 280 × 326 × 380 mm

Mass (excl. speakers)	
HCD-GNZ9D	Approx. 14 kg
HCD-GNZ8D	Approx. 12 kg
HCD-GNZ7D	Approx. 11 kg

Design and specifications are subject to change without notice.

SAFETY-RELATED COMPONENT WARNING!!

COMPONENTS IDENTIFIED BY MARK ⚠ OR DOTTED LINE WITH MARK ⚠ ON THE SCHEMATIC DIAGRAMS AND IN THE PARTS LIST ARE CRITICAL TO SAFE OPERATION. REPLACE THESE COMPONENTS WITH SONY PARTS WHOSE PART NUMBERS APPEAR AS SHOWN IN THIS MANUAL OR IN SUPPLEMENTS PUBLISHED BY SONY.

Notes on Chip Component Replacement

- Never reuse a disconnected chip component.
- Notice that the minus side of a tantalum capacitor may be damaged by heat.

Flexible Circuit Board Repairing

- Keep the temperature of soldering iron around 270°C during repairing.
- Do not touch the soldering iron on the same conductor of the circuit board (within 3 times).
- Be careful not to apply force on the conductor when soldering or unsoldering.

UNLEADED SOLDER

Boards requiring use of unleaded solder are printed with the lead free mark (LF) indicating the solder contains no lead.
(Caution: Some printed circuit boards may not come printed with the lead free mark due to their particular size)

LF: LEAD FREE MARK

Unleaded solder has the following characteristics.

- Unleaded solder melts at a temperature about 40 °C higher than ordinary solder.
  Ordinary soldering irons can be used but the iron tip has to be applied to the solder joint for a slightly longer time.
  Soldering irons using a temperature regulator should be set to about 350 °C.
  Caution: The printed pattern (copper foil) may peel away if the heated tip is applied for too long, so be careful!
- Strong viscosity
  Unleaded solder is more viscou-s (sticky, less prone to flow) than ordinary solder so use caution not to let solder bridges occur such as on IC pins, etc.
- Usable with ordinary solder
  It is best to use only unleaded solder but unleaded solder may also be added to ordinary solder.

CAUTION

Use of controls or adjustments or performance of procedures other than those specified herein may result in hazardous radiation exposure.

NOTES ON HANDLING THE OPTICAL PICK-UP BLOCK OR BASE UNIT

The laser diode in the optical pick-up block may suffer electrostatic breakdown because of the potential difference generated by the charged electrostatic load, etc. on clothing and the human body.
During repair, pay attention to electrostatic break-down and also use the procedure in the printed matter which is included in the repair parts.
The flexible board is easily damaged and should be handled with care.

NOTES ON LASER DIODE EMISSION CHECK

The laser beam on this model is concentrated so as to be focused on the disc reflective surface by the objective lens in the optical pick-up block. Therefore, when checking the laser diode emission, observe from more than 30 cm away from the objective lens.

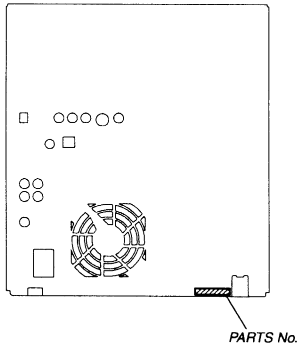
Laser component in this product is capable of emitting radiation exceeding the limit for Class 1.

CLASS 1 LASER PRODUCT
LUOKAN 1 LASERLAITE
KLASS 1 LASERAPPARAT

This appliance is claassified as a CLASS 1 LASER product. This label is located on the rear exterior.

MODEL IDENTIFICATION

– BACK PANEL –



- *Abbreviation*

E2 : 120 V AC area in E model
E3 : 240 V AC area in E model
E12 : 220-240 V AC area in E model
E13 : 220-230 V AC area in E model
E15 : Iran model
E51 : Chilean and Peruvian model
AUS : Australian model
EA : Saudi arabia model
PH : Philippine model
SP : Singapore model
MX : Mexican model
TH : Thai model

MODEL	PARTS No.
GNZ9D: SP	2-582-750-0□
GNZ9D: E3, E15	2-582-750-1□
GNZ9D: E12, E13	2-582-750-2□
GNZ9D: PH	2-582-750-3□
GNZ9D: EA	2-582-750-4□
GNZ9D: TH	2-582-750-5□
GNZ9D: AUS	2-582-750-6□
GNZ9D: E2	2-582-750-7□
GNZ9D: E51	2-582-750-8□
GNZ9D: MX	2-582-750-9□
GNZ8D: SP	2-582-751-0□
GNZ8D: E3, E15	2-582-751-1□
GNZ8D: E12, E13	2-582-751-2□
GNZ8D: PH	2-582-751-3□
GNZ8D: EA	2-582-751-4□
GNZ8D: TH	2-582-751-5□
GNZ7D: SP	2-582-752-0□
GNZ7D: E3, E15	2-582-752-1□
GNZ7D: E12, E13	2-582-752-2□
GNZ7D: PH	2-582-752-3□
GNZ7D: EA	2-582-752-4□
GNZ7D: TH	2-582-752-5□
GNZ7D: E2	2-582-752-6□

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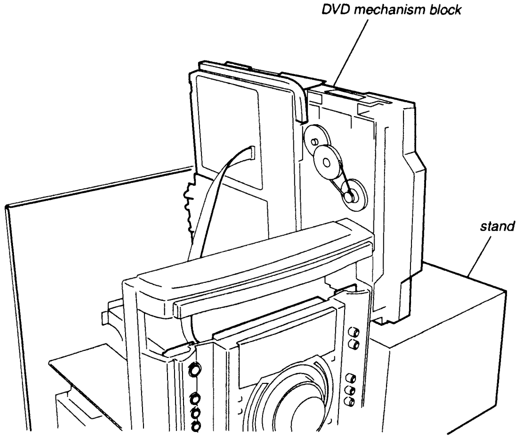
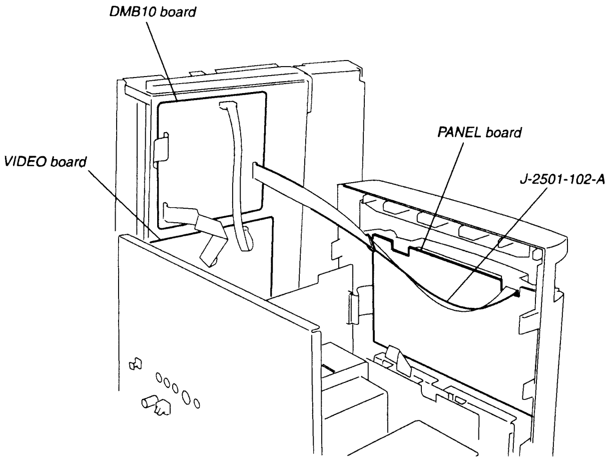
SECTION 1
SERVICE NOTE

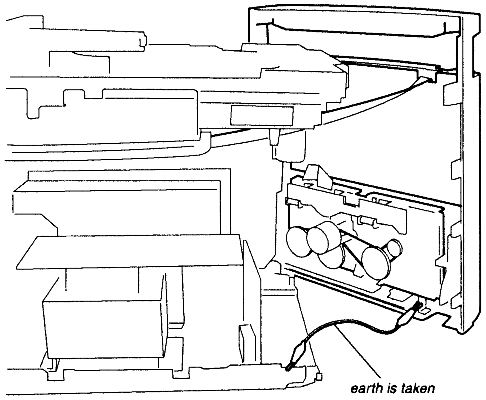
1-1, SERVICE POSITION OF CDM


DVD mechanism block
stand

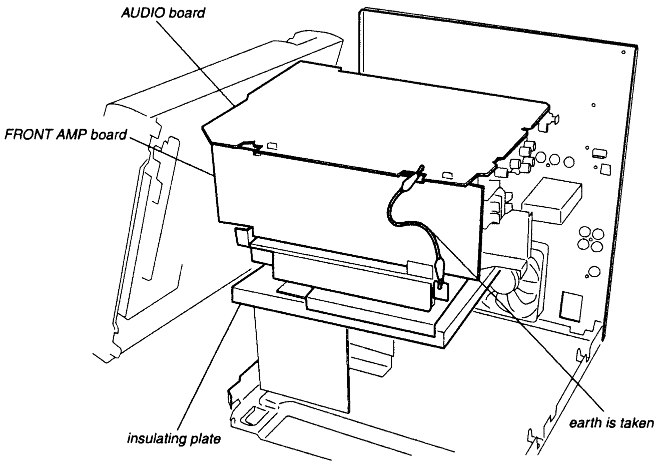
1-2. SERVICE POSITION OF DMB10 BOARD, VIDEO BOARD


DMB10 board
VIDEO board
PANEL board
J-2501-102-A

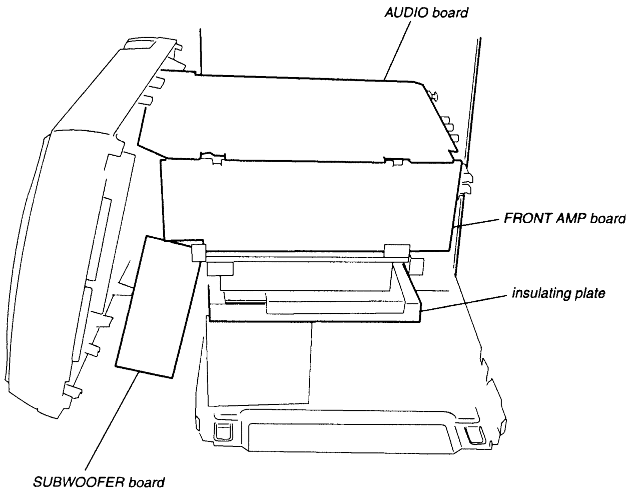
1-3. SERVICE POSITION OF TCM


earth is taken

1-4. SERVICE POSITION OF FRONT AMP BOARD


AUDIO board
FRONT AMP board
insulating plate
earth is taken

1-5. SERVICE POSITION OF SUBWOOFER BOARD



SECTION 2
GENERAL

This section is extracted from instruction manual.

List of button locations and reference pages

How to use this page

Use this page to find the location of buttons and other parts of the system that are mentioned in the text.

Illustration number
TAPE A/B 33 (52, 53, 54)
Name of button/part Reference page

Main unit

ALPHABETICAL ORDER

A - Q

CD SYNC 28 (for MHC-GNZ9D/GNZ8D/GNZ7D)
  30 (for MHC-GNZ5D) (53)
Deck A 26 (52, 54)
Deck B 15 (52, 53, 54, 62)
DIRECTION 13 (52, 53, 54)
DISC 1 – 3 12 (18, 21, 53, 77)
DISC SKIP/EX-CHANGE 11 (12, 17, 18, 21, 53)
Disc tray 9 (17)
DISPLAY 2 (40, 63, 65, 77)
Display window 6
DVD 33 (12, 40, 53)
ECHO LEVEL2) 19 (57)
EQ BAND/MEMORY 4 (57)
GROOVE 31 (55)
ILLUMINATION 34 2) (63)
MIC 1/2 jack 21 1) (57)
MIC LEVEL 20 (57)
Operation Dial (I◁◁ ▷▷I) 5 (57)
PHONES jack 24
Power illuminator 17 (63)
PRESET EQ 32 (55, 57)

R - Z

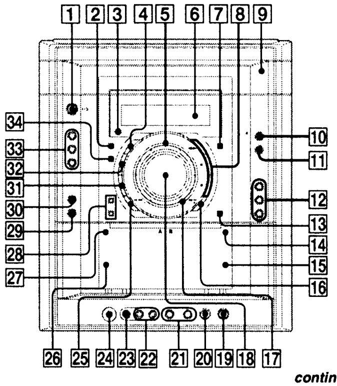
REC PAUSE/START 28 (for MHC-GNZ9D/GNZ8D/GNZ7D)
  29 (for MHC-GNZ5D) (53, 54)
Remote sensor 3
SOUND FIELD 7 (55)
TAPE A/B 33 (52, 53, 54)
TUNER/BAND 33 (50, 51, 54)
TUNING + 16 (50, 51)
TUNING – 25 (50, 51)
TV/SAT 30 2) (54, 70)
VIDEO 29 2) (54, 70)
VIDEO INPUT AUDIO L/R jacks 22 (54, 69)
VIDEO INPUT VIDEO jack 23 (69)
VOLUME control 18 (44, 58)

BUTTON DESCRIPTIONS

I/⏻ (power) 1 (10, 51, 61, 68, 77)
◀▶ (play) 8 (17, 39, 52, 53)
❚❚ (pause) 8 (11, 18, 52)
■ (stop) 8 (12, 18, 45, 52, 53, 77)
⏏ OPEN/CLOSE 10 (17)
⏏ PUSH (deck B) (eject) 14 (52)
▶▶ (fast forward) 16 (18, 52)
❚▶ (slow forward) 16 (18)
◀◀ (rewind) 25 (18, 52)
◀❚ (slow rewind) 25 (18)
⏏ PUSH (deck A) (eject) 27 (52)

1) MHC-GNZ5D has only one MIC jack.

2) Except for MHC-GNZ5D



continued

Remote control

ALPHABETICAL ORDER

A – Q

ALBUM +/– [24] (18, 68)
ANGLE [5] (49)
AUDIO [4] (35, 57, 70)
CLEAR [32] (14, 20, 21, 23, 28, 33, 43)
DISC SKIP [20] (18, 21)
DISPLAY [17] (63, 65)
ENTER [12] (14, 23, 20, 21, 23, 24, 27, 29, 32, 33, 34, 37, 45, 50, 59, 61, 62, 77)
FM MODE [22] (51)
FUNCTION +/– [2] (14, 17, 50, 51)
KARAOKE MODE [15] (57)
KARAOKE PON [16] (59)
MENU [6] (23, 26, 27, 29, 31, 50)
Number buttons* [14] (24, 46)
PICTURE NAVI [3] (28, 34)
PRESET + [26] (51)
PRESET – [30] (51)

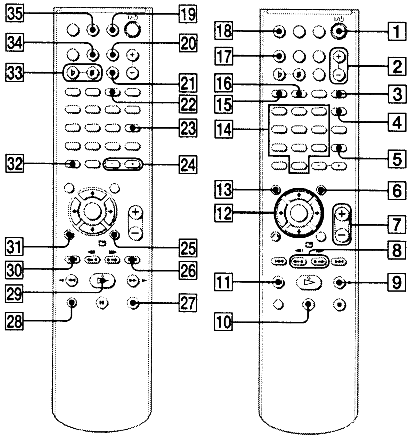
R – Z

REPEAT [22] (22)
SLEEP [18] (61)
SOUND FIELD [21] (55, 70)
SUBTITLE [23] (49)
THEATRE SYNC [19] (68)
TIMER MENU [35] (14, 61, 62)
TIME/TEXT [34] (64, 65)
TOP MENU [13] (23)
TUNING + [9] (50, 51)
TUNING – [11] (50, 51)
TV [28] (68)
TV CH + [26] (68)
TV CH – [30] (68)
TV/VIDEO [18] (68)
TV VOL +/–* [7] (68)
VOLUME +/–* [7] (44, 61)

BUTTON DESCRIPTIONS

I/⏻ (power) [1] (10, 61, 68, 77)
TV I/⏻ [1] (68)
←• REPLAY/ADVANCE •→/ ◀II STEP/STEP II▶ [8] (18)
SLOW I▶ [9] (18)
▶▶ (fast forward) [9] (18, 52)
II (pause) [10] (18, 52)
◀I SLOW [11] (18)
◀◀ (rewind) [11] (18, 52)
↑/↓/←/→ [12] (14, 20, 37, 59, 61, 77)
▭ DISPLAY [25] (21, 45, 65, 67)
▶▶I (go forward) [26] (18)
■ (stop) [27] (52)
I◀◀ (go back) [30] (18)
▷ (play)* [29] (17, 39)
↶ RETURN [31] (24)
-/-- [32]
KEY CONTROL ♯/♭ [33] (59)

* The ▷, number 5 and VOLUME + (TV VOL +) buttons have tactile dots. Use the tactile dots as references when operatihng the system.


35
34
33
32
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18
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16
15
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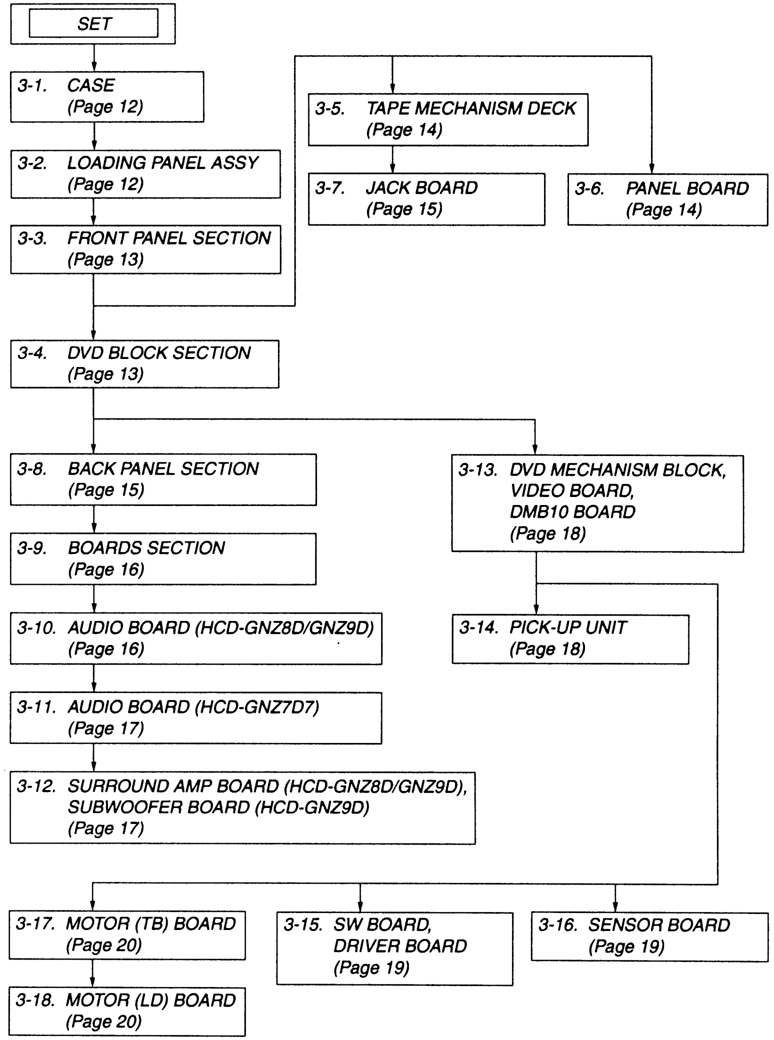
9

SECTION 3
DISASSEMBLY

Note : Disassemble the unit in the order as shown below.


SET
3-1. CASE (Page 12)
3-2. LOADING PANEL ASSY (Page 12)
3-3. FRONT PANEL SECTION (Page 13)
3-4. DVD BLOCK SECTION (Page 13)
3-5. TAPE MECHANISM DECK (Page 14)
3-7. JACK BOARD (Page 15)
3-6. PANEL BOARD (Page 14)
3-8. BACK PANEL SECTION (Page 15)
3-9. BOARDS SECTION (Page 16)
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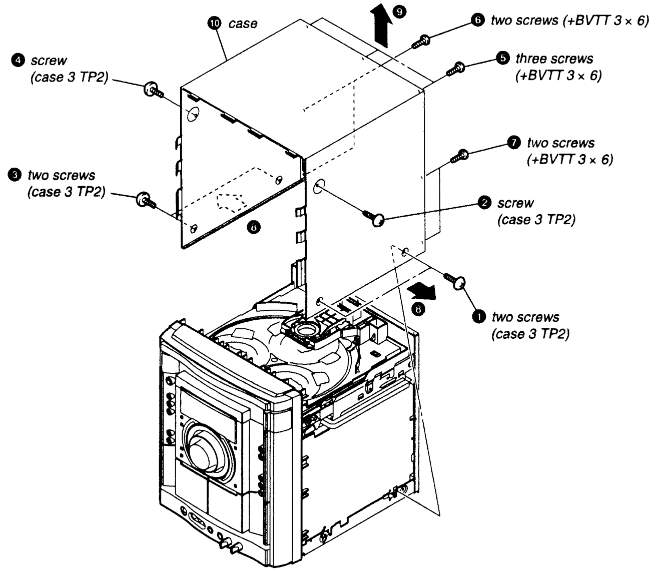
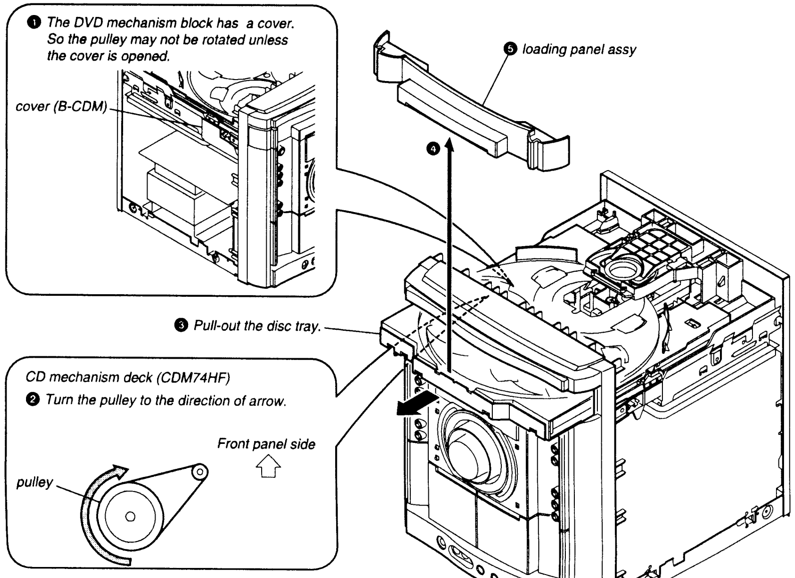
3-11. AUDIO BOARD (HCD-GNZ7D7) (Page 17)
3-12. SURROUND AMP BOARD (HCD-GNZ8D/GNZ9D), SUBWOOFER BOARD (HCD-GNZ9D) (Page 17)
3-13. DVD MECHANISM BLOCK, VIDEO BOARD, DMB10 BOARD (Page 18)
3-14. PICK-UP UNIT (Page 18)
3-17. MOTOR (TB) BOARD (Page 20)
3-18. MOTOR (LD) BOARD (Page 20)
3-15. SW BOARD, DRIVER BOARD (Page 19)
3-16. SENSOR BOARD (Page 19)

Note : Follow the disassembly procedure in the numerical order given.

3-1. CASE


❿ case
❾
❻ two screws (+BVTT 3 × 6)
❹ screw
(case 3 TP2)
❺ three screws
(+BVTT 3 × 6)
❼ two screws
(+BVTT 3 × 6)
❸ two screws
(case 3 TP2)
❷ screw
(case 3 TP2)
❽
❽
❶ two screws
(case 3 TP2)

3-2. LOADING PANEL ASSY


cover (B-CDM)
❺ loading panel assy
❹
pulley
Front panel side

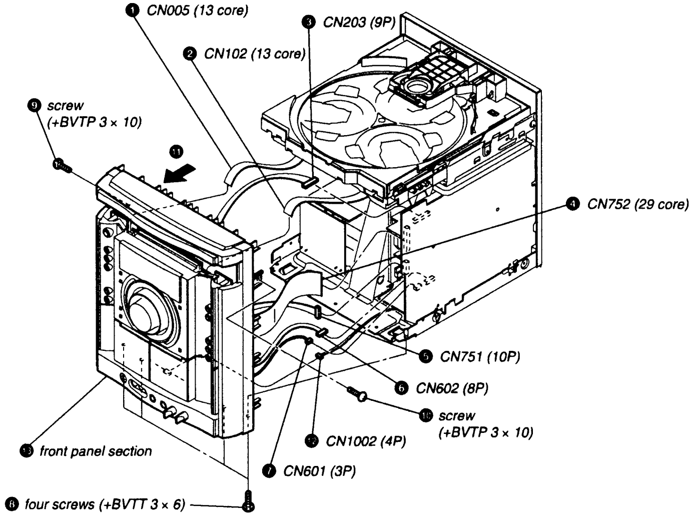
❶ The DVD mechanism block has a cover. So the pulley may not be rotated unless the cover is opened.

❸ Pull-out the disc tray.

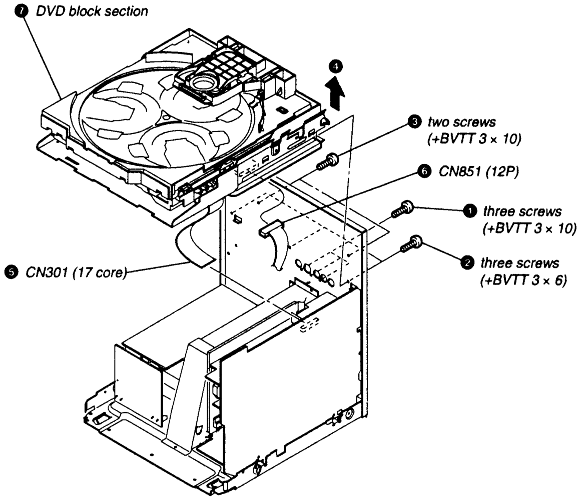
CD mechanism deck (CDM74HF)

❷ Turn the pulley to the direction of arrow.

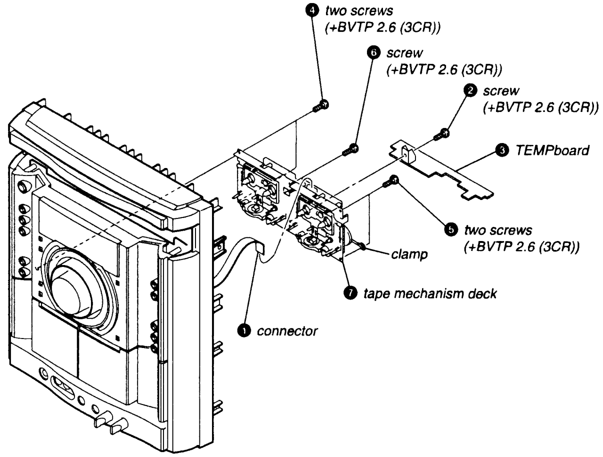
3-3. FRONT PANEL SECTION


❶ CN005 (13 core)
❸ CN203 (9P)
❷ CN102 (13 core)
❾ screw
(+BVTP 3 × 10)
⓫
❹ CN752 (29 core)
❺ CN751 (10P)
❻ CN602 (8P)
❿ screw
(+BVTP 3 × 10)
⓬ CN1002 (4P)
⓭ front panel section
❼ CN601 (3P)
❽ four screws (+BVTT 3 × 6)

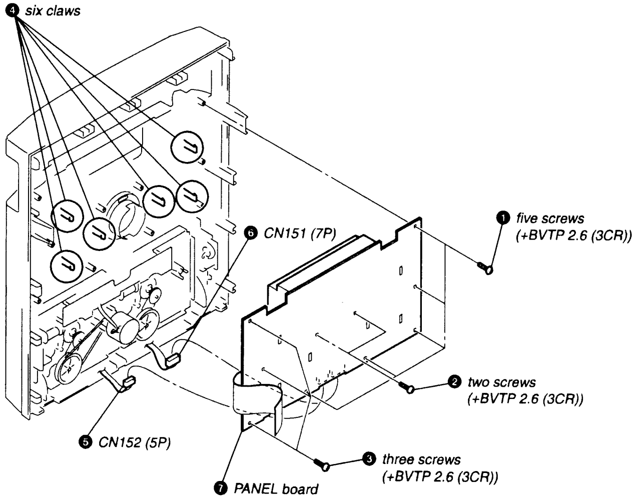
3-4. DVD BLOCK SECTION


❼ DVD block section
❹
❸ two screws
(+BVTT 3 × 10)
❻ CN851 (12P)
❶ three screws
(+BVTT 3 × 10)
❷ three screws
(+BVTT 3 × 6)
❺ CN301 (17 core)

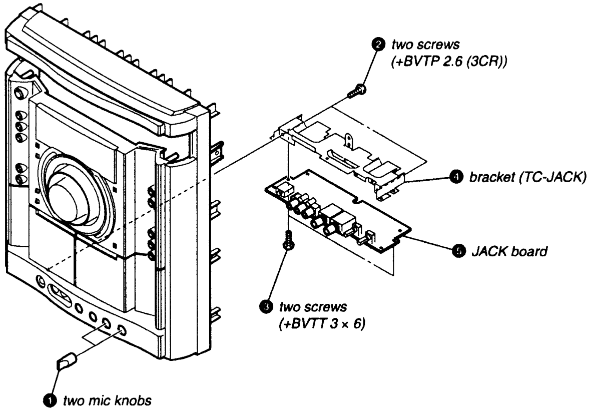
3-5. TAPE MECHANISM SECTION


❹ two screws
(+BVTP 2.6 (3CR))
❻ screw
(+BVTP 2.6 (3CR))
❷ screw
(+BVTP 2.6 (3CR))
❸ TEMPboard
❺ two screws
(+BVTP 2.6 (3CR))
clamp
❼ tape mechanism deck
❶ connector

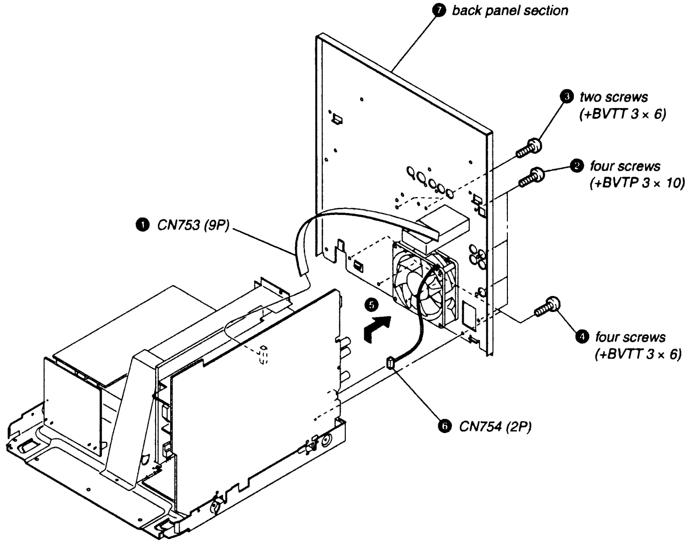
3-6. PANEL BOARD


❹ six claws
❻ CN151 (7P)
❶ five screws
(+BVTP 2.6 (3CR))
❷ two screws
(+BVTP 2.6 (3CR))
❺ CN152 (5P)
❸ three screws
(+BVTP 2.6 (3CR))
❼ PANEL board

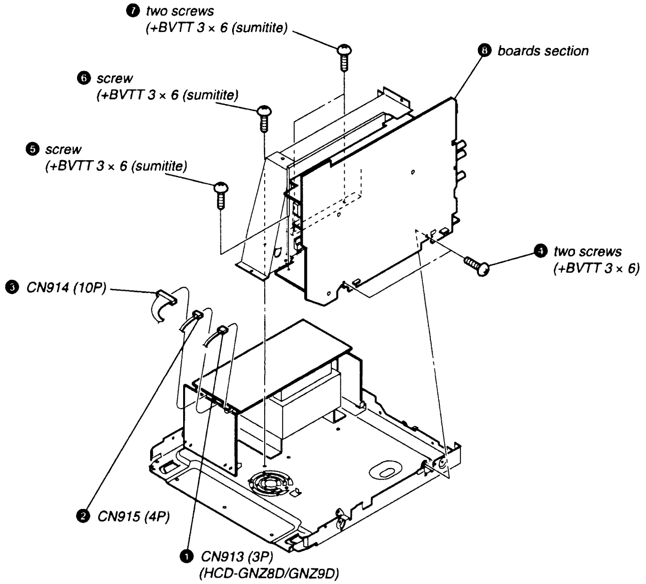
3-7. JACK BOARD


❷ two screws
(+BVTP 2.6 (3CR))
❹ bracket (TC-JACK)
❺ JACK board
❸ two screws
(+BVTT 3 × 6)
❶ two mic knobs

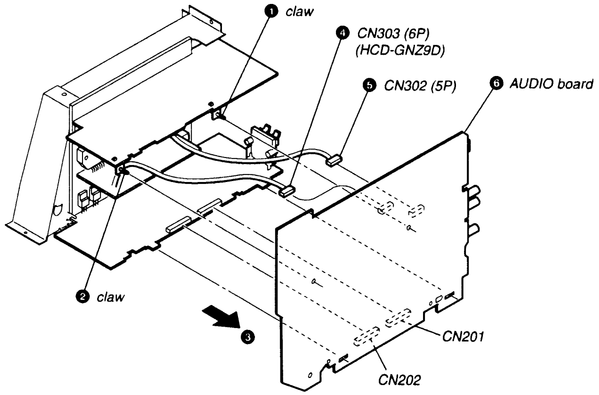
3-8. BACK PANEL SECTION


❼ back panel section
❸ two screws
(+BVTT 3 × 6)
❷ four screws
(+BVTP 3 × 10)
❶ CN753 (9P)
❺
❹ four screws
(+BVTT 3 × 6)
❻ CN754 (2P)

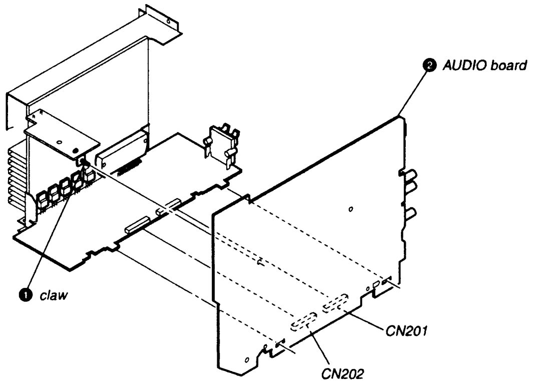
3-9. BOARDS SECTION


⑦ two screws
(+BVTT 3 × 6 (sumitite)
⑧ boards section
⑥ screw
(+BVTT 3 × 6 (sumitite)
⑤ screw
(+BVTT 3 × 6 (sumitite)
④ two screws
(+BVTT 3 × 6)
③ CN914 (10P)
② CN915 (4P)
① CN913 (3P)
(HCD-GNZ8D/GNZ9D)

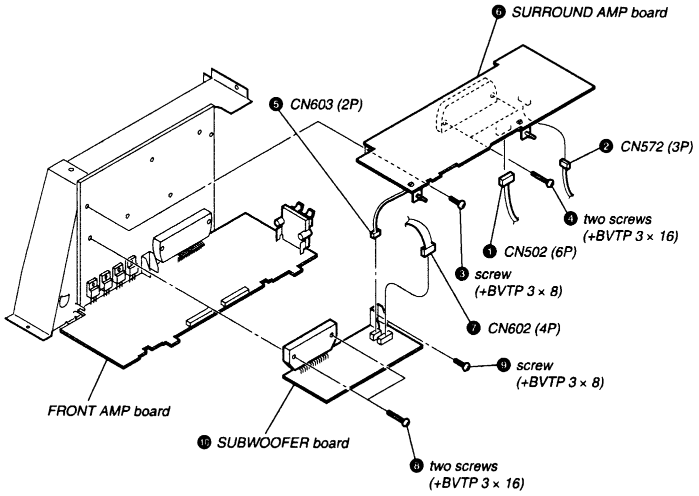
3-10. AUDIO BOARD (HCD-GNZ8D/GNZ9D)


① claw
④ CN303 (6P)
(HCD-GNZ9D)
⑤ CN302 (5P)
⑥ AUDIO board
② claw
③
CN201
CN202

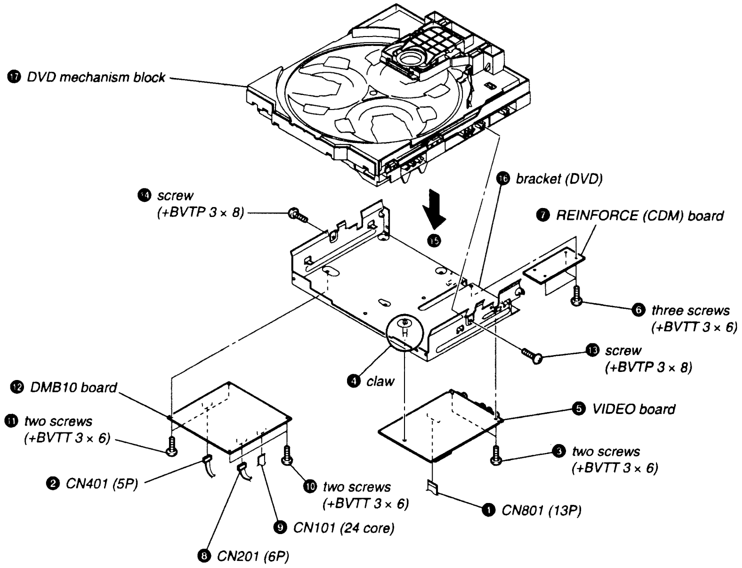
3-11. AUDIO BOARD (HCD-GNZ7D)


② AUDIO board
① claw
CN201
CN202

3-12. SURROUND AMP BOARD (HCD-GNZ8D/GNZ9D), SUBWOOFER BOARD (HCD-GNZ9D)

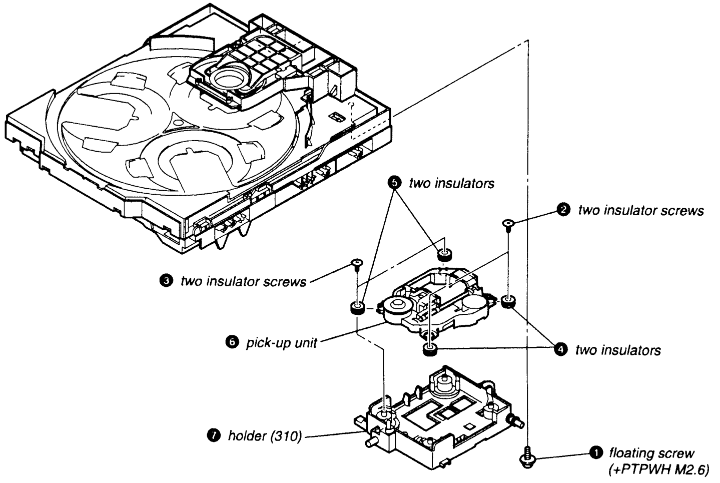

⑥ SURROUND AMP board
⑤ CN603 (2P)
② CN572 (3P)
④ two screws
(+BVTP 3 × 16)
① CN502 (6P)
③ screw
(+BVTP 3 × 8)
⑦ CN602 (4P)
⑨ screw
(+BVTP 3 × 8)
FRONT AMP board
⑩ SUBWOOFER board
⑧ two screws
(+BVTP 3 × 16)

3-13. DVD MECHANISM BLOCK, VIDEO BOARD, DMB10 BOARD

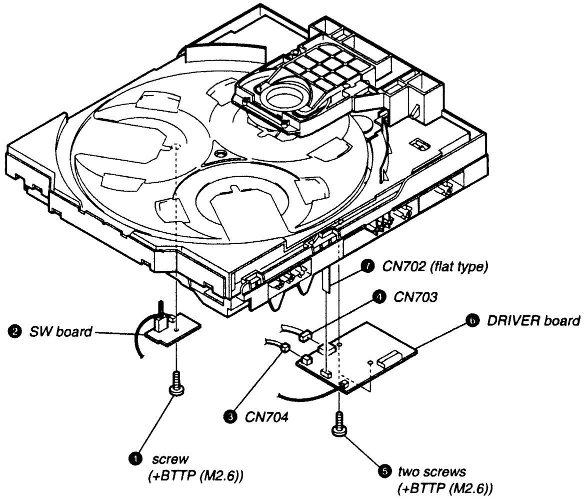

⑰ DVD mechanism block
⑯ bracket (DVD)
⑭ screw
(+BVTP 3 × 8)
⑮
⑦ REINFORCE (CDM) board
⑥ three screws
(+BVTT 3 × 6)
⑬ screw
(+BVTP 3 × 8)
④ claw
⑫ DMB10 board
⑤ VIDEO board
⑪ two screws
(+BVTT 3 × 6)
③ two screws
(+BVTT 3 × 6)
② CN401 (5P)
⑩ two screws
(+BVTT 3 × 6)
① CN801 (13P)
⑨ CN101 (24 core)
⑧ CN201 (6P)

Note : Be short-circuited of the land of optical pick-up when CN101 is done in pulling out.

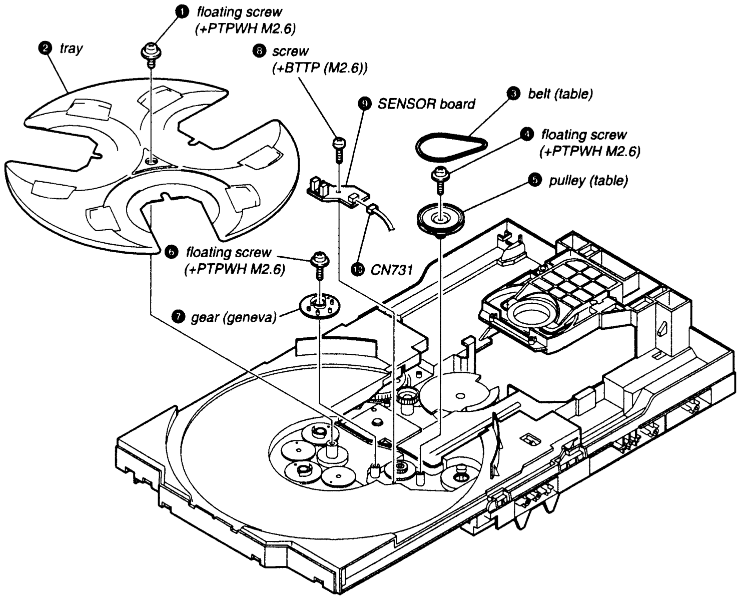
3-14. PICK-UP UNIT


⑤ two insulators
② two insulator screws
③ two insulator screws
⑥ pick-up unit
④ two insulators
⑦ holder (310)
① floating screw
(+PTPWH M2.6)

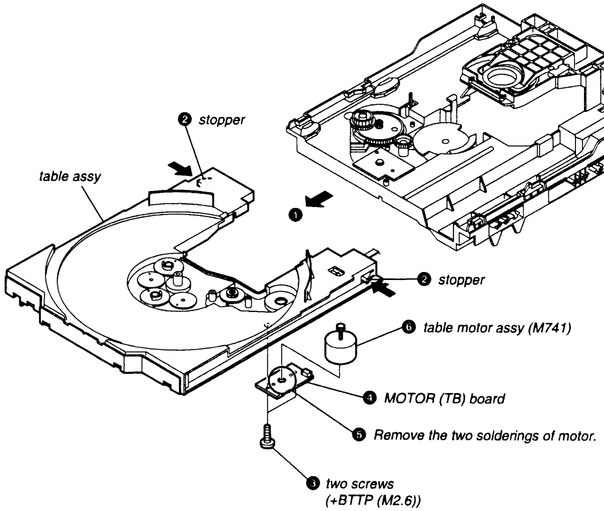
3-15. SW BOARD, DRIVER BOARD


⑦ CN702 (flat type)
④ CN703
② SW board
⑥ DRIVER board
③ CN704
① screw
(+BTTP (M2.6))
⑤ two screws
(+BTTP (M2.6))

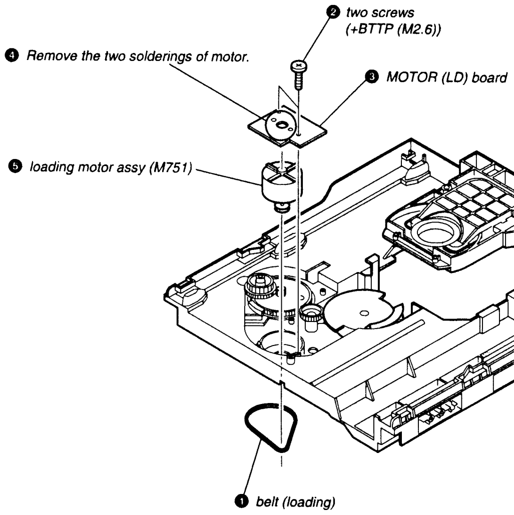
3-16. SENSOR BOARD


① floating screw
(+PTPWH M2.6)
② tray
⑧ screw
(+BTTP (M2.6))
⑨ SENSOR board
③ belt (table)
④ floating screw
(+PTPWH M2.6)
⑤ pulley (table)
⑥ floating screw
(+PTPWH M2.6)
⑩ CN731
⑦ gear (geneva)

3-17. MOTOR (TB) BOARD



3-18. MOTOR (LD) BOARD


❷ two screws
(+BTTP (M2.6))
❹ Remove the two solderings of motor.
❸ MOTOR (LD) board
❺ loading motor assy (M751)
❶ belt (loading)

SECTION 4
TEST MODE

[Cold Reset]

- The cold reset clears all data including preset data stored in the RAM to initial conditions. Execute this mode when returning the set to the customer.

Procedure:

1. Press three buttons of ■, DISPLAY and DISC 1 simultaneously.
2. The message "COLD RESET" is displayed, and the set is reset.

[Tuner Step Change]

- A step of AM channels can be changed over between 9 kHz and 10 kHz.

Procedure:

1. Press the I/⏻ button to turn the power ON, and set the function to TUNER/BAND "AM".
2. Press the I/⏻ button to turn the power OFF.
3. Press two buttons of TUNING + and I/⏻ simultaneously, and the message changes to "AM 9 k STEP" or "AM 10 k STEP", and thus the channel step is changed over.

[TV/SAT Function Change]

- Change of function TV or SAT (also the input level changes).

Procedure:

1. Press the I/⏻ button to turn the power ON.
2. Press two buttons of TV/SAT and I/⏻ simultaneously, and the message changes to "SAT" or "TV", and thus the channel step is changed over.

[Color System Change]

Procedure:

1. Press the I/⏻ button to turn the power ON.
2. Press two buttons of ❚❚ and I/⏻ simultaneously.
3. The message "COLOR NTSC" or "COLOR PAL" is displayed.

[Disc Tray Lock]

The disc tray lock function for the antitheft of a demonstration disc in the store is equipped.

Setting Procedure :

1. Press the I/⏻ button to turn the power ON.
2. Press two buttons of ■ and ⏏ simultaneously for five seconds.
3. The message "LOCKED" is displayed, and the tray is locked.

Releasing Procedure :

1. Press two buttons of ■ and ⏏ simultaneously for five seconds.
2. The message "UNLOCKED" is displayed, and the tray is unlocked.

Note: When the message "LOCKED" is displayed, the tray lock is not released by turning power ON/OFF with the I/⏻ button.

[Progressive Change]

Procedure:

1. Press the I/⏻ button to turn the power ON.
2. Press two buttons of DVD and DISPLAY simultaneously.

[Panel Test Mode]

- This mode is used to check the fluorescent indicator tube, LEDs, keyboard, volume and phones.

Enter The Panel Test Mode

Procedure:

1. Press three buttons of ■ , DISPLAY and DISC 2 simultaneously.
2. LEDs and fluorescent indicator tube are all turned on.

Model Information

Procedure:

1. It puts it into the start of the panel test mode.
2. Press the DIRECTION button, the mode change model name or destination display.

Key Test Mode

Procedure:

1. It puts it into the start of the panel test mode.
2. Press the ◀▶ button, the mode change key test mode.

VACS Display

Procedure:

1. It puts it into the start of the panel test mode.
2. Press the ❚❚ button, the mode change VACS display.
   The message "VACS 0+0" is displayed.

Version Display

Procedure:

1. It puts it into the start of the panel test mode.
2. Press the DIRECTION button, the mode change version display.
   Press the DISPLAY button, the mode change version or days is displayed.
3. You can exit the Test Mode when you press three buttons of ❚❚, DISPLAY and DISC 2 simultaneously.

[Common Test Mode]

- This mode is used to check operations of the respective sections of Amplifier and Tape.

Procedure:

- To enter MC Test Mode

1. Press the I/⏻ button to turn the power ON.
2. Press three buttons of ■, DISPLAY and DISC 3 simultaneously.

* Check of Amplifier

Initial settings: Input ➡ TV
EQ ➡ FLAT
Mode ➡ MUSIC
VACS ➡ OFF

- When you press the EQ BAND/MEMORY button, the message "GEQ FLAT" is displayed, and the entire band of the graphic equalizer is set to the center level.
- When VOLUME control knob is turned clockwise even slightly, the sound volume increases to is maximum and the message "VOLUME MAX" is displayed for two seconds, then the display returns to the original display.
- When VOLUME control knob is tuned counter-clockwise even slightly, the sound volume decreases to its minimum and the message "VOLUME MIN" is displayed for two seconds, then the display returns to the original display.
- Whenever you press the GROOVE button, it toggles between "VACS ON" and "VACS OFF" so that you can switch ON or OFF of VACS.

* To return to normal mode again.

1. When you want to exit this mode, press the I/⏻ button.
2. The cold reset is enforced at the same time.

[DVD and CD Ship Mode (No Memory Clear)]

- This mode moves the position to the position durable to vibration. Use this mode when returning the set to the customer after repair.

Procedure:

1. Press the I/⏻ button to turn the power ON.
2. Press two buttons of ■ and DISC SKIP simultaneously.
3. After the "STANDBY" display blinks 15 times, the message "LOCK" is displayed, and the DVD ship mode is set.

[DVD and CD Ship Mode (Memory Clear)]

- This mode moves the pickup to the position durable to vibration. Use this mode when returning the set to the customer after repair.

Procedure:

1. Press the I/⏻ button to turn the power ON.
2. Press three buttons of ■, DISPLAY and DIRECTION simultaneously.
3. After the "STANDBY" display blinks 15 times, the message "LOCK" is displayed, and the DVD ship mode is set.

DVD SECTION

4-1. GENERAL DESCRIPTION

The Mirror Time and IOP measurement allows you to make diagnosis and adjustment simply by using the remote commander and monitor TV. The instructions, diagnosis results, etc. are given on the on screen display (OSD).

The Mirror Time and IOP measurement is required is such events where servicing a DVD-Player includes changing the Base Unit (BU). For each new BU to be used with a certain MV-044 board, Mirror Time and IOP measurement need to be carried out.

4-2. STARTING TEST MODE

Press three buttons ■, ⏏ and VOLUME + simultaneously with the DVD player in standby mode.
The Test Mode starts, then the menu shown below will be displayed on the TV screen.

```
Remocon Diagnosis Menu

0. External Chip Check
1. Servo Parameter Check
2. Drive Manual Operation
3. Emergency History
4. Version Information
5. Video Level Adjustment

Model Name : GVLXD_XX
IF-con     : Ver. xx.xx (xxxx)
Syscon     : Ver. x.xxx
```

The menu above is the Remocon Diagnosis Menu screen which consists of six main function. At the bottom of the menu screen, the model name and IF-con version. To enter Mirror Time Adjustment menu, press button 2 "R" on the remote commander to enter Drive Manual Operation menu. To exit from the Test Mode, press the power button on the remote commander.

4-3. DRIVE MANUAL OPERATION

The Drive Manual Operation menu consists of five main function. By pressing 2 "R" button on the remote commander in the Remocon Diagnosis Menu, the screen will appear as below.

```
Drive Manual Operation

1. Servo Control
2. Track/Layer Jump
3. Manual Adjustment
4. Tray Aging Mode
5. MIRR time Adjust
0. Return to Top Menu
```

4-4. MIRROR TIME ADJUSTMENT

To enter Mirror Time Adjustment, press 5 "R" button on the remote commander. The screen will appear as below.

```
MIRR time Adjust Menu

1. CD MIRR time Check:
2. DVD MIRR time Check:
3. Threshold:
4. Save to EEPROM
5. Default set MIRR time

[Open] Tray open [Close] Tray close
[0] Return to previous menu
```

There are five main commands in the Mirr time Adjust menu as shown in the figure above. The functions of each command are described in the following page.

1. CD MIRR time Check
This command checks the Mirror time value for CD disc.

2. DVD MIRR time Check
This command checks the Mirror time value for DVD disc.

3. Threshold
This command displays the threshold value between CD and DVD mirror time.

4. Save to EEPROM
This command saves an adjusted mirror time value to the EEPROM.

5. Default set MIRR time
This command will set CD and DVD mirror time to firmware default value.

[Open] / [Close]
Pressing the ⏏ button controls the tray for disc change during mirror time adjustment.
[0] Return to previous menu
Press 0 "R" button to return to previous menu.

4-4-1. EXECUTING MIRROR TIME ADJUSTMENT

In order to execute mirror time adjustment, the following standard procedures must be followed.

(1) In standby mode, press three buttons ■, ⏏ and VOLUME + simultaneously.

(2) Select "2. Drive Manual Operation".

```
Remocon Diagnosis Menu

0. External Chip Check
1. Servo Parameter Check
2. Drive Manual Operation
3. Emergency History Check
4. Version information
5. Video Level Adjustment

Model       : GVLXD_xx
IF-con      : Ver. xx.xx (xxxx)
Syscon      : Ver. x.xxx
```

(3) Select "5. MIRR time Adjust".

```
Drive Manual Operation

1. Servo Control
2. Track/Layer Jump
3. Manual Adjustment
4. Mecha test mode
5. MIRR time Adjust
0. Return to Top Menu
```

(4) Select "5. Default set MIRR time".

```
MIRR time Adjust Menu

1. CD MIRR time Check:
2. DVD MIRR time Check:
3. Threshold:
4. Save to EEPROM:
5. Default set MIRR time:

[Open] Tray open [Close] Tray close
[0] Return to previous menu
```

(5) Select "3. Threshold".

(6) Confirm the number. If it is 7D, go to next step. If it is any other value, return to step 4.

```
MIRR time Adjust Menu

1. CD MIRR time Check:
2. DVD MIRR time Check:
3. Threshold:7D ←
4. Save to EEPROM:
5. Default set MIRR time:

[Open] Tray open [Close] Tray close
[0] Return to previous menu
```

(7) Push ⏏ button to eject tray.

(8) Insert Test Disc HLX-504 into tray.

(9) Push ⏏ button to close tray.

(10) Push "2. DVD MIRR time Check".

(11) Wait for HEX number to display.

(12) Confirm the number, if XX is 28 ~ 70, proceed with next step. If no, return to 8.

```
MIRR time Adjust Menu

1. CD MIRR time Check:
2. DVD MIRR time Check:  xx XX
3. Thereshold:
4. Save to EEPROM:
5. Default set MIRR time:

[Open] tray open [close] Tray close
[0] Return to previous menu
```

(13) Push "4. Save to EEPROM".

(14) Confirm the same values are displayed. If it is not same, return to step 7.

```
MIRR time Adjust Menu

1. CD MIRR time Check:
2. DVD MIRR time Check: XX XX
3. Threshold:
4. Save to EEPROM:
5. Default set MIRR time:

[Open] Tray open [close] Tray close
[0] Return to previous menu
```

(15) Push ⏏ button to eject tray.

(16) Take out HLX-504 and insert Test Disc YEDS-18 into tray.

(17) Push ⏏ button to close tray.

(18) Push "1. CD MIRR time check".

(19) Wait for HEX number to display.

(20) Confirm the number, if YY is 5A ~ E8, proceed with next step. If no, return to 15.

```
MIRR time Adjust Menu

1. CD MIRR time Check:  yy YY
2. DVD MIRR time Check:  XX  XX
3. Threshold:
4. Save to EEPROM:
5. Default set MIRR time:

[Open] Tray open [close] Tray close
[0] Return to previous menu
```

(21) Push "4. Save to EEPROM".

(22) Confirm the same values are displayed. If it is not the same, return to step 15.

```
MIRR time Adjust Menu

1. CD MIRR time check: YY  YY
2. DVD MIRR time check:  XX  XX
3. Threshold:
4. Save to EEPROM:
5. Default set MIRR time:

[Open] Tray open [close] Tray close
[0] Return to previous menu
```

(23) Push ⏏ button to eject tray.

(24) Remove Test Disc YEDS-18 from tray.

(25) Push ⏏ button to close tray.

(26) Press 0 "R" button to the Drive Manual Operation menu.

(27) Press 0 "R" button to return to the Remocon Diagnosis Menu.

(28) Press the I/⏻ button to switch OFF set.

4-5. EXECUTING IOP MEASUREMENT

In order to execute mirror time adjustment, the following standard procedures must be followed.

(1) In standby mode, press three buttons ■, ⏏ and VOLUME + simultaneously.

```
Remocon Diagnosis Menu

0. External Chip Check
1. Servo Parameter Check
2. Drive Manual Operation
3. Emergency History Check
4. Version information
5. Video Level Adjustment

Model       : GVLXD XX
IF-con  Ver  : XX.XX (XXXX)
Syscon  Ver  : X.XX
```

(2) Select "2. Drive Manual Operation" by pressing the 2 "R" button on the remote commander. The screen will appear as below.

```
Drive Manual Operation

1. Servo Control
2. Track/Layer Jump
3. Manual Adjustment
4. Tray Aging Mode
5. MIRR time adjust
0. Return to top Menu
```

(3) Select "3. Manual Adjustment" by pressing the 3 "R" button on the remote commander. The screen will appear as below.

```
Manual Adjust

1. Track Balance Adjust:
2. Track Gain Adjust:
3. Focus Balance Adjust:
4. Focus Gain Adjust:
5. Eg boost Adjust:
6. Iop:
7. TRV. Level:
8. S curve(FE) Level:
9. RFL(PI) Level:
0. MIRR Time:

↓ ↑  Change Value
[RETURN] Return to previous menu
```

(4) Select Iop by pressing 6 "R" button on the remote commander.

(5) Wait until a hexadecimal number appear.

```
Manual Adjust

1. Track Balance Adjust:
2. Track Gain Adjust:
3. Focus Balance Adjust:
4. Focus Gain Adjust:
5. Eq Boost Adjust:
6. Iop.5B:
7. TRV. Level:
8. S curve(FE) Level:
9. RFL(PI) Level:
0. MIRR Time:

Change Value
[0] Return to previous menu
```

(6) Convert each data from hexadecimal to decimal using conversion table.

(7) Substract between these two values.

(8) If the remainder is smaller than 93 (decimal), then it is OK. However if the value is higher than 93, then the BU is defective and need to be change.

(9) Press RETURN "R" button to return back to previous menu.

(10) Press 0 "R" button to return to Top Menu and power OFF the DVD Player.

SECTION 5
MECHANICAL ADJUSTMENTS

Precaution

1. Clean the following parts with a denatured alcohol-moistened swab:

record/playback heads	pinch rollers
erase head	rubber belts
capstan	idlers

2. Demagnetize the record/playback head with a head demagnetizer.
3. Do not use a magnetized screwdriver for the adjustments.
4. After the adjustments, apply suitable locking compound to the parts adjusted.
5. The adjustments should be performed with the rated power supply voltage unless otherwise noted.

Torque Measurement

Mode	Torque meter	Meter reading
FWD	CQ-102C	3.06 N • m to 6.96 N • m 31 to 71 g • cm (0.43 – 0.98 oz • inch)
FWD back tension	CQ-102C	0.19 N • m to 0.58 N • m 2 to 6 g • cm (0.02 – 0.08 oz • inch)
REV	CQ-102RC	3.06 N • m to 6.96 N • m 31 to 71 g • cm (0.43 – 0.98 oz • inch)
REV back tension	CQ-102RC	0.19 N • m to 0.58 N • m 2 to 6 g • cm (0.02 – 0.08 oz • inch)
FF/REW	CQ-201B	6.96 N • m to 14.02 N • m 71 to 143 g • cm (0.98 – 1.99 oz • inch)
FWD tension	CQ-403A	9.80 N • m 100 g or more (3.53 oz or more)
REV tension	CQ-403R	9.80 N • m 100 g or more (3.53 oz or more)

SECTION 6
ELECTRICAL ADJUSTMENTS

DVD SECTION

AUTO SERVO ADJUSTMENT

After parts related to the servo circuit (RF amplifier , DSP (IC102), motor driver (IC201), EEPROM (IC103) so on) are replaced, re-adjusting the servo circuit is necessary.

[TEST DISC LIST]

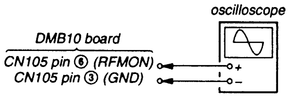
Use the following test disc on test mode.

TDV-520CSO (DVD-SL):	PART No. J-2501-236-A
LUV-P01 (CD):	PART No. 4-999-032-01
TDV-540C (DVD-DL):	PART No. J-2501-235-A

Note: Do not use exiting test disc for DVD.

[RFMON Level Check]

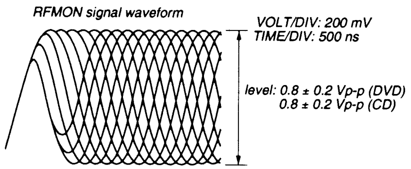
Connection:


oscilloscope
DMB10 board
CN105 pin ⑥ (RFMON)
CN105 pin ③ (GND)
+
–

Procedure:

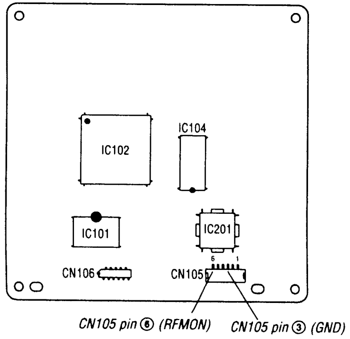
1. Connect an oscilloscope to CN105 pin ⑥ (RFMON) and CN105 pin ③ (GND) on the DMB10 board.
2. Turn the power on.
3. Set the test disc (DVD: TDV-520CSO, CD: LUV-P01) on the tray and press ▷ button to playback.
4. Confirm that oscilloscope waveform is clear and check RFMON signal level is correct or not.

Note: A clear RFMON signal waveform means that the shape "◊" can be clearly distinguished at the center of the waveform.



Checking Location: DMB10 board (Side A)

[DMB10 BOARD] (SIDE A)

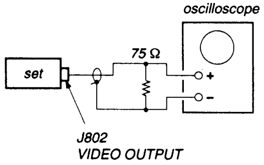

IC102
IC104
IC101
IC201
CN106
CN105
6
1
CN105 pin ⑥ (RFMON)
CN105 pin ③ (GND)

VIDEO SECTION

Video Level Check (VIDEO BOARD)

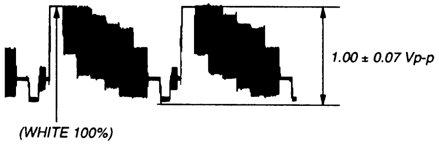
Purpose

This adjustment is made to satisfy the NTSC standard, and if not adjusted correctly, the brightness will be too large or small.


oscilloscope
set
75 Ω
+
–
J802
VIDEO OUTPUT

Procedure:

1. Connect oscilloscope to VIDEO output.
2. Load a DVD reference disc playback.
3. Check the video signal level is 1.00±0.07Vp-p.



DECK SECTION

0 dB=0.775 V

1. Demagnetize the record/playback head with a head demagnetizer.
2. Do not use a magnetized screwdriver for the adjustments.
3. After the adjustments, apply suitable locking compound to the parts adjust.
4. The adjustments should be performed with the rated power supply voltage unless otherwise noted.
5. The adjustments should be performed in the order given in this service manual. (As a general rule, playback circuit adjustment should be completed before performing recording circuit adjustment.)
6. The adjustments should be performed for both L-CH and R-CH.
7. Switches and controls should be set as follows unless otherwise specified.

- Test Tape

Tape	Signal	Used for
P-4-A063	6.3 kHz, –10 dB	Azimuth Adjustment

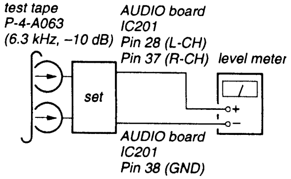
Record/Playback Head Azimuth Adjustment

DECK A **DECK B**

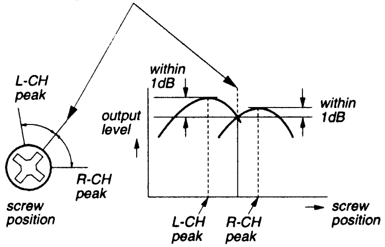
Note: Perform this adjustments for both decks

Procedure:

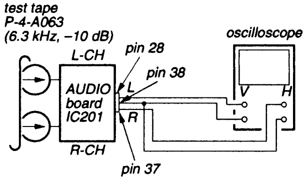
1. Mode: Playback

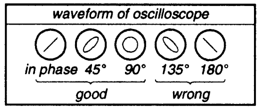

test tape
P-4-A063
(6.3 kHz, –10 dB)
AUDIO board
IC201
Pin 28 (L-CH)
Pin 37 (R-CH)
level meter
set
+
–
AUDIO board
IC201
Pin 38 (GND)

2. Turn the adjustment screw and check output peaks. If the peaks do not match for L-CH and R-CH, turn the adjustment screw so that outputs match within 1dB of peak.


L-CH
peak
R-CH
peak
screw
position
within
1dB
output
level
within
1dB
L-CH
peak
R-CH
peak
screw
position

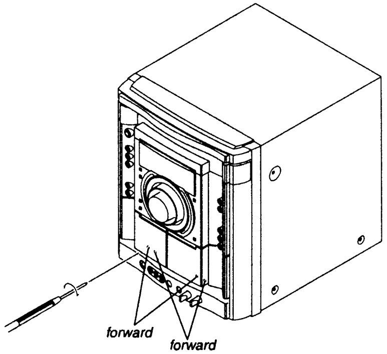
3. Mode: Playback


test tape
P-4-A063
(6.3 kHz, –10 dB)
L-CH
pin 28
pin 38
oscilloscope
AUDIO
board
IC201
L
R
V
H
R-CH
pin 37


waveform of oscilloscope
in phase
45°
90°
135°
180°
good
wrong

4. After the adjustments, apply suitable locking compound to the pats adjusted.

Adjustment Location: Playback Head (Deck A).
Record/Playback/Erase Head (Deck B).


forward
forward

SECTION 7
DIAGRAMS

• IC PIN Descriptions

IC101 M30392MEP-A00FPU (SYSTEM CONTROL) (PANEL BOARD (2/2))

Pin No.	Pin Name	I/O	Pin Description
1	61537 CLK	O	TA device control serial clock signal output
2	61530 CLK	O	TA device control serial clock signal output
3	TA DATA	O	TA device control serial data signal output
4	STANDBY LED	O	Standby LED control signal output
5	VIDEO OUT SW	O	Video out switch control signal output "H": VIDEO
6	VIDEO MUTE	O	Video mute signal output "L": VIDEO
7	SIRCS	I	Remote control signal input
8	VACS2	I	VACS signal input
9	CN VSS	—	Connector ground pin
10	X CIN	I	Sub clock signal input (32.768 kHz)
11	X COUT	O	Sub clock signal output (32.768 kHz)
12	RESET	I	Reset signal input
13	XOUT	O	Main clock signal output (16 MHz)
14	VSS	—	Ground pin
15	X IN	I	Main clock signal input (16 MHz)
16	VCC1	—	Power supply pin (+3.3 V)
17	P85	I	Pull up (EVER+3.3 V)
18	ILLUMI 1/4	O	Illumination on/off control signal output "H": On
19	ST TUNED	I	ST tuned signal input
20	AC CUT	I	AC cut signal input
21	ILLUMI CTRL	O	Illumination control signal output
22	DVD POWER	O	DVD power supply control signal output
23	MTK RESET	O	MTK reset signal output
24	MTK BUSY	O	MTK busy signal output
25	I2C CLK	I/O	I2C serial clock signal input/output
26	I2C DATA	I/O	I2C serial data signal input/output
27	MTK OUT	O	MTK serial data signal output
28	MTK IN	I	MTK serial data signal input
29	MTK CLK	I	MTK serial clock signal input
30	MTK CS	I	MTK chip select signal input
31 to 43	G13 to G1	O	Grid and segment control signal output
44 to 51	P1 to P8	O	Grid and segment control signal output
52	VEE	—	Power supply pin
53 to 61	P9 to P17	O	Grid and segment control signal output
62	VCC2	—	Power supply pin (+3.3 V)
63	P18	O	Grid and segment control signal output
64	VSS	—	Ground pin
65 to 67	P19 to P21	O	Grid and segment control signal output
68	ST CE	O	Tuner chip enable signal output
69	ST DIN	I	Tuner data in signal input
70	ST DOUT	O	Tuner data out signal output
71	ST CLK	O	Tuner serial clock signal output
72	I/O VCC CONT	O	In/out power supply control signal output
73	I/O LATCH	O	In/out serial latch control signal output
74	WAKE UP0	I	Wake up signal input
75	I/O CLK	O	In/out serial clock control signal output
76	I/O DI1	O	In/out serial data control signal output
77	I/O RST	O	In/out reset signal output
78	TRG (B)	O	Tape mechanism logic (Trigger B) control signal output
79	TRG (A)	O	Tape mechanism logic (Trigger A) control signal output
80	ILLUMI 3/6	O	Illumination on/off control signal output "H": On
81	ILLUMI 2/3	O	Illumination on/off control signal output "H": On
82	PLAY SW (A) & (B)/ A-HALF	I	Head up switch detect signal input (A deck and B deck) A deck HALF signal input
83	SHUT (A)	I	Protect detect signal input (A deck)
84	SHUT (B)	I	Protect detect signal input (B deck)
85	B HALF/REC	I	B deck HALF signal input/Record signal input (A deck and B deck)
86	BIAS	O	Bias on/off signal output
87	KARAOKE/ MTK M REQ	I	MTK KARAOKE mode signal input MTK mute request signal input
88	VACS/ILLUMI	I	VACS and illumination (L+R) control signal input
89	VOL (A) & (B)/ SW IN	I	Volume A and B control signal input Sub woofer control signal input
90	SPEC IN	I	Specification signal input
91	MODEL IN	I	Serial line up signal input
92 to 94	KEY2 to KEY0	I	Key signal input
95	CDM EJECT/ PROTECT	I	CD mechanism eject detect signal input Protect detect signal input
96	AVSS	—	Ground pin
97	CDM ENC0/1/2	I	CD mechanism switch signal input
98	VREF	—	Voltage reference pin
99	AVCC	—	Power supply pin (+3.3 V)
100	CDM TBL SENS	I	CD mechanism table sensor detect signal input

IC102 BH2210FV (SIGNAL IN/OUT CONTROL) (PANEL BOARD (2/2))

Pin No.	Pin Name	I/O	Pin Description
1	CTLIO	I	IN/OUT control port (Fixed at "H" in this set.)
2	RSTB	I	Reset signal input
3	CLK	I	Serial clock signal input
4	LATCH	I	Serial latch signal input
5	STBY RELAY	O	Standby relay on/off signal output "H": On, "L": Off
6	FAN ON/OFF	O	Fan on/off signal output "H": Off, "L": On
7	FRONT RELAY	O	Front relay on/off signal output "H": On, "L": Off
8	TA MUTE	O	TA line mute on/off signal output "H": Off, "L": On
9	HP MUTE	O	Headphones mute on/off signal output "H": Off, "L": On
10	AU-OUT MUTE	O	Audio out mute on/off signal output "H": Off, "L": On
11	SW MUTE	O	Subwoofer mute on/off signal output "H": Off, "L": On
12	FAN CTRL	O	FAN control signal output "L": Off
13 to 15	NO USE	O	Not used. (Open)
16	NO USE	O	Not used. (Fixed at "L".)
17	TBL POS	O	CD mechanism table position control signal output
18	TBL NEG	O	CD mechanism table NEG control signal output
19	LOD POS	O	CD mechanism table loading position control signal output
20	LOD NEG	O	CD mechanism table NEG control signal output
21	PB/REC	O	Tape playback/record signal output "H": REC, "L": PB
22	REAR RELAY	O	Rear relay on/off signal output "H": On, "L": Off
23	SW RELAY	O	Subwoofer relay on/off signal output "H": On, "L": Off
24	CAPM SW	O	Capstan motor on/off signal output "H": On, "L": Off
25	DO2	O	Not used. (Open)
26	DI1	I	Serial data signal input
27	VSS	—	Ground pin
28	VDD	—	Power supply pin (+3 V)

DMB10 BOARD IC102 CXD9804R

(CD/DVD RF AMP, FOCUS/TRACKING ERR AMP, DVD SYSTEM PROCESSOR, DIGITAL SERVO PROCESSOR)

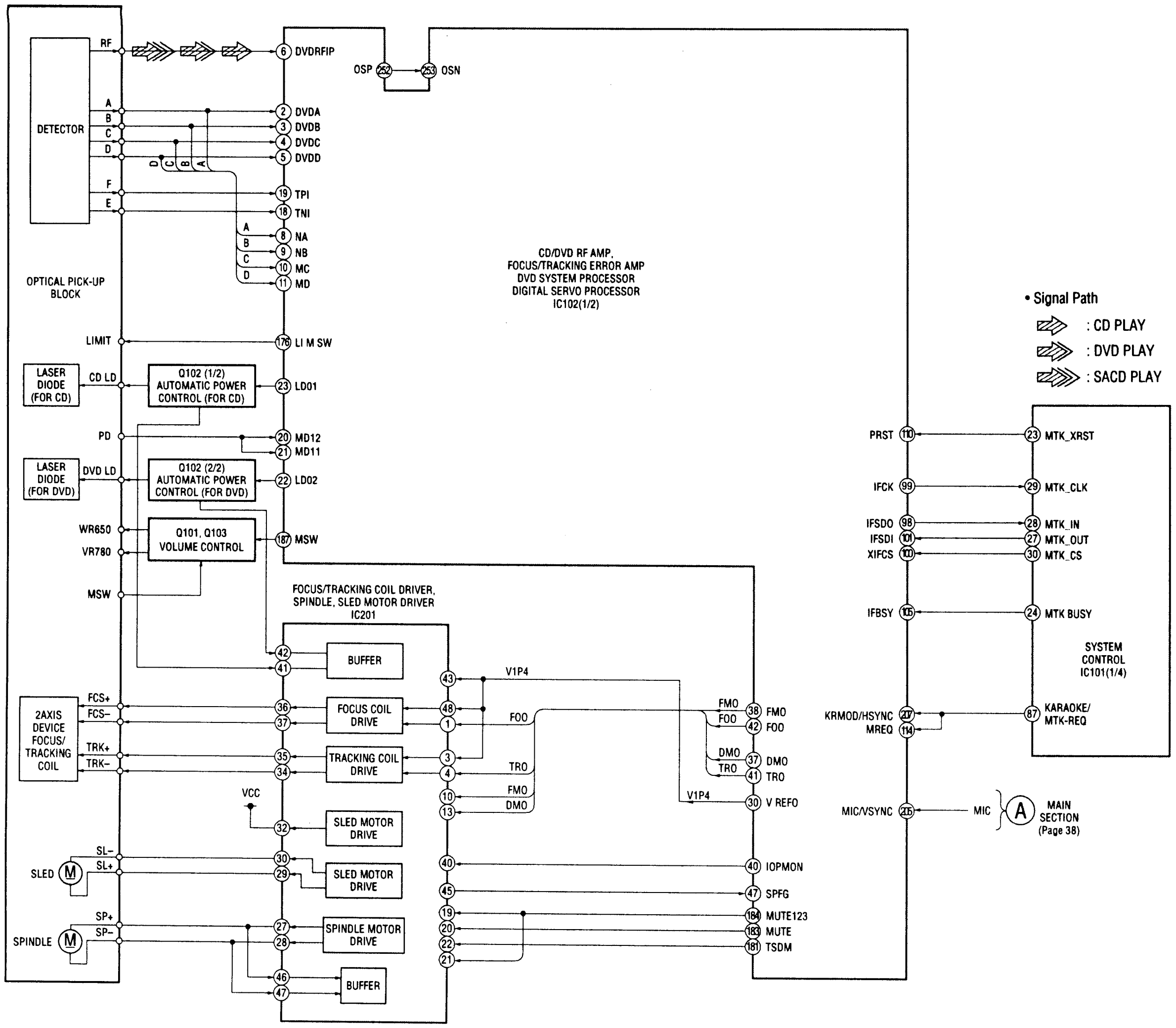
Pin No.	Pin Name	I/O	Description
1	AGND	—	Terminal Ground
2	DVDA	I	AC coupled input path A
3	DVDB	I	AC coupled input path B
4	DVDC	I	AC coupled input path C
5	DVDD	I	AC coupled input path D
6	DVDRFIP	I	AC coupled DVD RF signal input RFIP
7	DVDRFIN	I	AC coupled DVD RF signal input RFIN (not used)
8	NA	I	DC coupled main-beam RF signal input A
9	NB	I	DC coupled main-beam RF signal input B
10	MC	I	DC coupled main-beam RF signal input C
11	MD	I	DC coupled main-beam RF signal input D
12	SA	I	DC coupled sub-beam RF signal input A (not used)
13	SB	I	DC coupled sub-beam RF signal input B (not used)
14	SC	I	DC coupled sub-beam RF signal input C (not used)
15	SD	I	DC coupled sub-beam RF signal input D (not used)
16	CDFON	I	CD focusing error negative input (not used)
17	CDFOP	I	CD focusing error positive input (not used)
18	TNI	I	3 beam satellite PD signal negative input
19	TPI	I	3 beam satellite PD signal positive input
20	MDI1	I	Laser power PD monitor input
21	MDI2	I	Laser power PD monitor input
22	LDO2	O	Laser drive output
23	LDO1	O	Laser drive output
24	SVDD3	—	Power Supply (+3.3V)
25	CSO	O	Central servo, Positive main beam summing output (not used)
26	RFLVL	O	RFRP low pass, or Positive main beam summing output (not used)
27	SGND	—	Terminal Ground
28	V2REFO	O	Reference voltage 2.8V
29	V2O	O	Reference voltage 2.0V
30	VREFO	O	Reference voltage 1.4V
31	FEO	O	Focus error monitor output (not used)
32	TEO	O	Tracking error monitor output (not used)
33	TEZISLY	O	TE Slicing Level (not used)
34	OPOUT	O	Op amp output (not used)
35	OPIN	I	Op amp negative input (not used)
36	OPIN	I	Op amp positive input (not used)
37	DMO	O	Disk motor control output. PWM output
38	FMO	O	Feed motor control. PWM output
39	TROPENPWM	O	Tray PWM output/Tray open output.
40	IOPMON	O	General PWM output
41	TRO	O	Tracking servo output
42	FOO	O	Focus servo output
43	USBVSS	—	Terminal Ground
44	USBP	I	USB port DPLUS analog pin (not used)
45	USBM	I	USB port DMINUS analog pin (not used)
46	USBVDD3	—	Power Supply (+3.3V)
47	SPFGG	I	Motor Hall sensor input
48	AN0	I	Not Used
49	AN1	I	Not Used
50	AN2	I	Not Used
51	MAMUTE	O	MAMUTE signal output to System Controller (IC509) (not used)
52	DVDD18	—	Power Supply (+1.8V)
53 to 58	IOA 2 to 7	O	Address bus 2 to 7 output to PROM (IC101)
59	HIGHA0	O	Address bus 8 output to PROM (IC101)
60, 61	IOA18, 19	O	Address bus 18, 19 output to PROM (IC101)
62	DVSS	—	Terminal Ground
63	APLLCAP	I	APLL External Capacitance connection
64	APLLVSS	—	Terminal Ground
65	DVDD3	—	Power Supply (+3.3V)
66	I OWA	O	WE signal output to PROM (IC101)
67	A16	O	Address bus 16 output to PROM (IC101)
68 to 72	HIGHA 7 to 3	O	Address bus 15 to 11 output to PROM (IC101)
73	DVDD3	—	Power Supply (+3.3V)
74, 75	HIGHA 2, 1	O	Address bus 10, 9 output to PROM (IC101)
76	IOA20	O	Address bus 20 output to PROM (IC101)
77	IOCS	O	CE signal output to PROM (IC101)
78	IOA1	O	Address bus 1 output to PROM (IC101)
79	IOOE	O	OE signal output to PROM (IC101)
80	DVDD3	—	Power Supply (+3.3V)
81 to 84	AD 0 to 3	I	Data bus 0 to 3 input from PROM (IC101)
85	DVSS	—	Terminal Ground
86 to 88	AD 4 to 6	I	Data bus 4 to 6 input from PROM (IC101)
89	IOA21	O	Address bus 21 output to PROM (IC101)
90	ALE	O	Address latch enable (not used)
91	AD7	I	Data bus 7 input from PROM (IC101)
92	A17	O	Address bus 17 output to PROM (IC101)
93	IOA0	O	Address bus 0 output to PROM (IC101)
94	DVSS	—	Terminal Ground
95	UWA	I	System Controller write strobe (not used)
96	URB	I	System Controller read strobe (not used)
97	DVDD18	—	Power Supply (+1.8V)
98	IFSDO	I	DVD SOD signal input from System Controller (IC509)
99	IFCK	O	DVD SCO signal output to System Controller (IC509)
100	XIFCS	I	DVD XIFCS signal input from System Controller (IC509)
101	IFSDI	I	VIFBUSY signal output from System Controller (IC509)
102	SCL	O	SCL signal output to EEPROM (IC103)
103	SDA	O	SDA signal output to EEPROM (IC103)
104	TRG-SW	O	RS232 RXD signal output (not used)
105	IF-BSY	I	RS232 TXD signal input from System Controller (IC509)
106	RXD	I	RD232 RXD clock
107	TXD	I	RD232 TXD data
108	DVDD3	—	Power Supply (+3.3V)
109	ICE	I	ICE mode enable (not used)
110	PRST	I	MTRST signal input from System Controller (IC509)
111	IR	I	IR control signal input (not used)
112	INT0	I	External interrupt0 (not used)
113	DQMO	O	DQM0 signal output to SD-RAM (IC104)

Pin No.	Pin Name	I/O	Description
114	MREQ	I	DQM signal input
115	RD7	I	Data bus 7 from SD-RAM (IC104)
116	DVSS	—	Terminal Ground
117, 118	RD 6, 5	I	Data bus 6, 5 from SD-RAM (IC104)
119	DVSS	—	Terminal Ground
120, 121	RD 4, 3	I	Data bus 4, 3 from SD-RAM (IC104)
122	DVDD18	—	Power Supply (+1.8V)
123 to 125	RD 2 to 0	I	Data bus 2 to 0 from SD-RAM (IC104)
126	RD15	I	Data bus 15 from SD-RAM (IC104)
127	DVDD3	—	Power Supply (+3.3V)
128	RD 14	I	Data bus 14 from SD-RAM (IC104)
129 to 133	RD 13 to 9	I	Data bus 13 to 9 from SD-RAM (IC104)
134	DVSS	—	Terminal Ground
135	RD8	I	Data bus 8 from SD-RAM (IC104)
136	GPI0	—	Not Used
137	DQM1	O	DQM1 signal output to SD-RAM (IC104)
138	REW	O	WE signal output to SD-RAM (IC104)
139	CAS	O	CAS signal output to SD-RAM (IC104)
140	RAS	O	RAS signal output to SD-RAM (IC104)
141	DVDD3	—	Power Supply (+3.3V)
142	RCS	O	RCS signal output to SD-RAM (IC206)
143	BAO	0	BAO signal output to SD-RAM (IC206)
144	DVSS	—	Terminal Ground
145	BA1	O	BA1 signal output to SD-RAM (IC104)
146	RA10	O	Address bus 10 output to SD-RAM (IC104)
147	RA0	O	Address bus 0 output to SD-RAM (IC104)
148	DVSS	—	Terminal Ground
149 to 151	RA 1 to 3	O	Address bus 1 to 3 output to SD-RAM (IC104)
152	DVDD18	—	Power Supply (+1.8V)
153	RVREF	I	Reference voltage
154	RCLKB	I	Dram clock
155	DVDD3	—	Power Supply (+3.3V)
156	RCLK	O	CLK signal output to SD-RAM (IC104)
157	CKE	O	CKE signal output to SD-RAM (IC104)
158 to 160	RA 11 to 8	O	Address bus 11 to 8 output to SD-RAM (IC104)
161	DVSS	—	Terminal Ground
162	RA7	O	Address bus 7 output to SD-RAM (IC104)
163	DVSS	—	Terminal Ground
164 to 166	RA 6 to 4	O	Address bus 6 to 4 output to SD-RAM (IC104)
167	DVDD3	—	Power Supply (+3.3V)
168	DISC/X	—	Not Used
169	RGB	O	RGB control signal output
170	XSMRST	—	Not Used
171	WODE	O	SI signal output to VIDEO AMP (IC201)
172	NT	—	Not Used
173	DVDD18	—	Power Supply (+1.8V)
174	EUR	—	Not Used
175	DVSS	—	Terminal Ground
176	LIMSW	O	LIMSW signal output to Optical pick-up

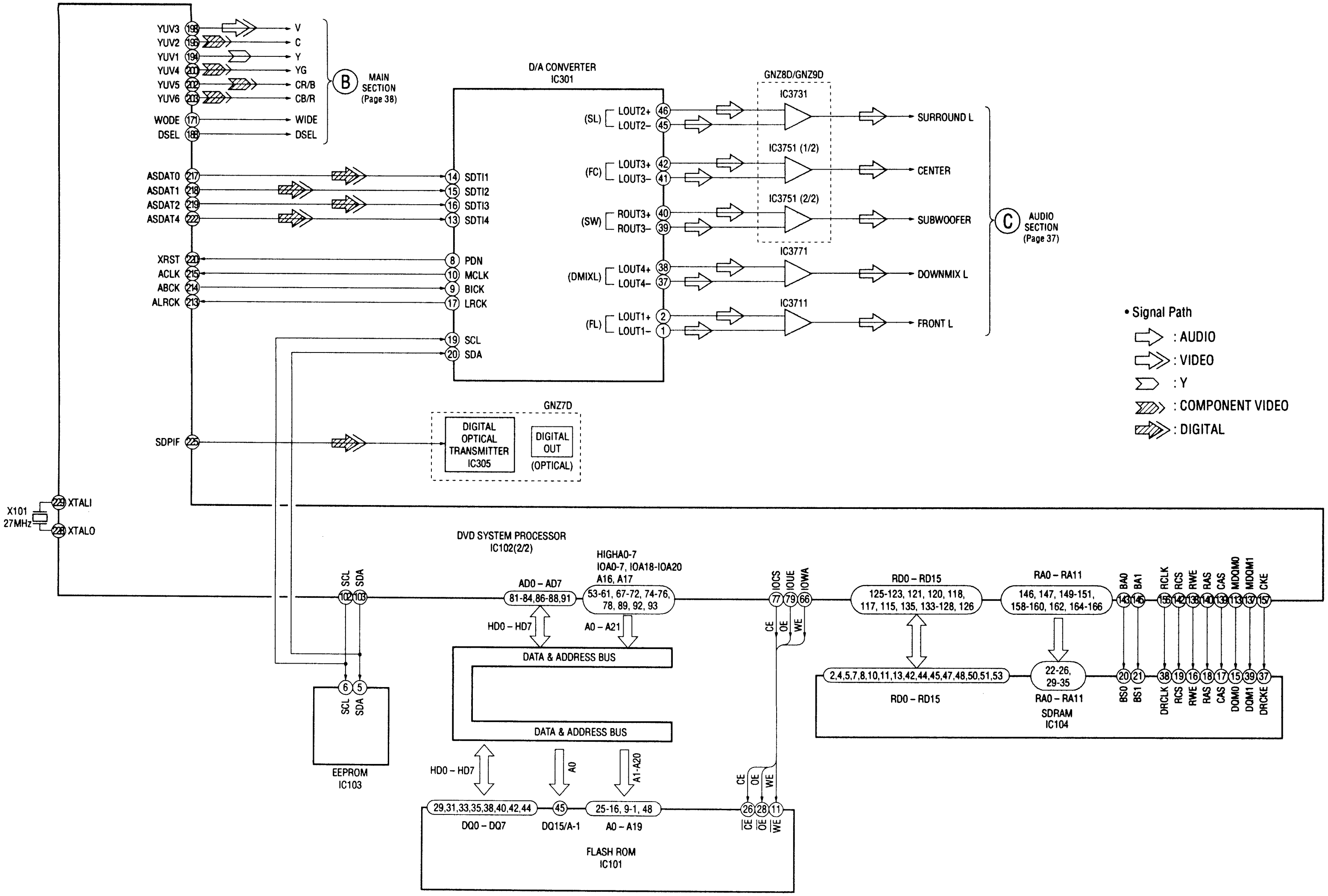
Pin No.	Pin Name	I/O	Description
177	OCSW	I	SEN signal input from System Controller (IC509)/OCSW signal input
178	VCLK	—	Not Used
179	CKSW	I	CKSW signal input
180	IO3	—	Not Used
181	TSDM	O	TSDM signal output to Motor driver (IC201)
182	DVDD3	—	Power Supply (+3.3V)
183	MUTE	O	MUTE signal output to Motor driver (IC201)
184	MUTE123	O	MUTE signal output to Motor driver (IC201)
185	REW	O	REV signal output to Motor driver (IC201)
186	FWD	O	FWD signal output to Motor driver (IC201)
187	MSW	O	Volume control signal output to Optical pick-up
188	DSEL	O	Select signal output
189	DAVCC	—	Power Supply (+3.3V)
190	VREF	I	Bandgap reference voltage (not used)
191	FS	O	Full scale adjustment (pull down)
192	YUV0	—	Not Used
193	DVSS	—	Terminal Ground
194	YUV1	O	Y signal output to VIDEO AMP (IC201)
195	DAVDD	—	Power Supply (+3.3V)
196	YUV2	O	CHROMA signal output to VIDEO AMP (IC201)
197	DVSS	—	Terminal Ground
198	YUV3	O	VIDEO signal output to VIDEO AMP (IC201)
199	DAVDD	—	Power Supply (+3.3V)
200	YUV4	O	G signal output to VIDEO AMP (IC201)
201	DVSS	—	Terminal Ground
202	YUV5	O	B signal output to VIDEO AMP (IC201)
203	YUV6	O	R signal output to VIDEO AMP (IC201)
204	DVDD3	—	Power Supply (+3.3V)
205	MIC/VSYNC	—	Not Used
206	VOICE/YUV7	—	Not Used
207	KRMOB/HSYNC	—	Not Used
208	SMSCK	—	Not Used
209	SPDATA/SMSDI	I	Audio data of SPDIF input
210	SMSDO	—	Not Used
211	XSMCS	—	Not Used
212	DVDD3	—	Power Supply (+3.3V)
213	ALRCK	I	Audio left/right channel clock
214	ABCK	O	Audio bit clock
215	ACLK	I	Audio DAC master clock
216	DVSS	—	Terminal Ground
217	ASDATA0	O	Auio serial data
218	ASDATA1	O	Auio serial data
219	ASDATA2	O	Auio serial data
220	XRST	—	Not Used
221	DVDD18	—	Power Supply (+1.8V)
222	ASDATA4	O	Auio serial data (not used)
223	DVSS	—	Terminal Ground
224	DWIDE	—	Not Used
225	SDPIF	—	SPDIF output (not used)
226	RFGND18	—	Terminal Ground

Pin No.	Pin Name	I/O	Description
227	RFVDD18	—	Power Supply (+1.8V)
228	ZTALO	O	Oscillator output signal
229	ZTALI	I	Oscillator input signal
230	JITFO	O	RF jitter meter output
231	JITFN	I	Negative input of operation amplifier for RF jigger meter
232	PLLVSS	—	Terminal Ground
233	IDAC	—	Not Used
234	PLLVDD3	—	Power Supply (+3.3V)
235	LPFON	O	Negative output of loop filter amplifier
236	LPFIP	I	Positive input of loop filter amplifier
237	LPFIN	I	Negative input of loop filter amplifier
238	LPFOP	O	Positive output of loop filter amplifier
239	VDD3	I	Power Supply (+3.3V)
240	VCM	I	SACD-Common mode Reference
241	VSS	—	Terminal Ground
242	VREEP	I	SACD-TOP Reference
243	VREEN	I	SACD-Bottom Reference
244	RFVDD3	—	Power Supply (+3.3V)
245	RFRPDC	I	RFRP signal input
246	RFRPAC	I	RFRP signal input
247	HRFZC	I	High frequency RF ripple zero crossing
248	CRTPLP	O	Defect level filter capacitor connecting
249	RFGND	—	Terminal Ground
250	CEQP	O	EQ offset loop capacitance (not used)
251	CEQN	O	EQ offset loop capacitance (not used)
252	OSP	O	RF offset cancellation capacitor connecting
253	OSN	I	RF offset cancellation capacitor connecting
254	RFGC	O	RF offset loop capacitor connecting for DVD-ROM
255	IREF	I	Current reference input
256	AVDD3	—	Power Supply (+3.3V)

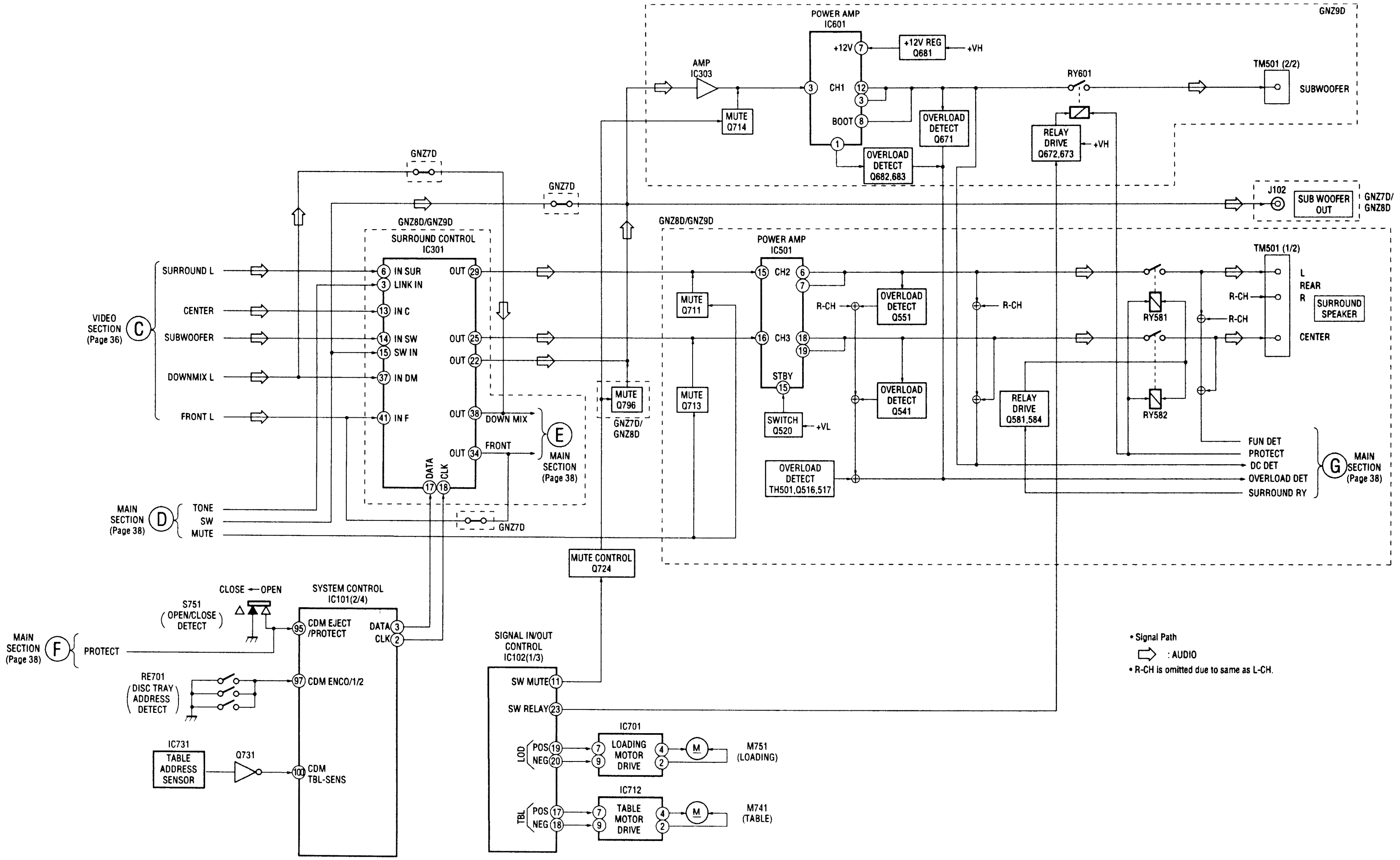
7-1. BLOCK DIAGRAM — RF/SERVO SECTION —


DETECTOR
RF
A
B
C
D
F
E
D C B A
OPTICAL PICK-UP BLOCK
6 DVDRFIP
OSP 252
253 OSN
2 DVDA
3 DVDB
4 DVDC
5 DVDD
19 TPI
18 TNI
A
B
C
D
8 NA
9 NB
10 MC
11 MD
CD/DVD RF AMP,
FOCUS/TRACKING ERROR AMP
DVD SYSTEM PROCESSOR
DIGITAL SERVO PROCESSOR
IC102(1/2)
LIMIT
176 LI M SW
LASER DIODE (FOR CD)
CD LD
Q102 (1/2) AUTOMATIC POWER CONTROL (FOR CD)
23 LD01
PD
20 MD12
21 MD11
LASER DIODE (FOR DVD)
DVD LD
Q102 (2/2) AUTOMATIC POWER CONTROL (FOR DVD)
22 LD02
WR650
VR780
Q101, Q103 VOLUME CONTROL
187 MSW
MSW
FOCUS/TRACKING COIL DRIVER,
SPINDLE, SLED MOTOR DRIVER
IC201
42
41
BUFFER
43
V1P4
2AXIS DEVICE FOCUS/ TRACKING COIL
FCS+
FCS–
TRK+
TRK–
36
37
FOCUS COIL DRIVE
48
1
FOO
35
34
TRACKING COIL DRIVE
3
4
TRO
VCC
10
13
FMO
DMO
32
SLED MOTOR DRIVE
SLED
M
SL–
SL+
30
29
SLED MOTOR DRIVE
SPINDLE
M
SP+
SP–
27
28
SPINDLE MOTOR DRIVE
46
47
BUFFER
40
45
19
20
22
21
FMO
FOO
38 FMO
42 FOO
DMO
TRO
37 DMO
41 TRO
V1P4
30 V REFO
40 IOPMON
47 SPFG
184 MUTE123
183 MUTE
181 TSDM
• Signal Path
: CD PLAY
: DVD PLAY
: SACD PLAY
PRST 110
23 MTK_XRST
IFCK 99
29 MTK_CLK
IFSDO 98
IFSDI 101
XIFCS 100
28 MTK_IN
27 MTK_OUT
30 MTK_CS
IFBSY 105
24 MTK BUSY
SYSTEM CONTROL IC101(1/4)
KRMOD/HSYNC 207
MREQ 114
87 KARAOKE/ MTK-REQ
MIC/VSYNC 205
MIC
A
MAIN SECTION (Page 38)

7-2. BLOCK DIAGRAM — VIDEO SECTION —


YUV3 198 → V
YUV2 195 → C
YUV1 194 → Y
YUV4 200 → YG
YUV5 202 → CR/B
YUV6 203 → CB/R
WODE 171 → WIDE
DSEL 188 → DSEL
B MAIN SECTION (Page 38)
D/A CONVERTER IC301
ASDAT0 217 → 14 SDTI1
ASDAT1 218 → 15 SDTI2
ASDAT2 219 → 16 SDTI3
ASDAT4 222 → 13 SDTI4
XRST 220 → 8 PDN
ACLK 215 → 10 MCLK
ABCK 214 → 9 BICK
ALRCK 213 → 17 LRCK
19 SCL
20 SDA
(SL) LOUT2+ 46 LOUT2- 45
(FC) LOUT3+ 42 LOUT3- 41
(SW) ROUT3+ 40 ROUT3- 39
(DMIXL) LOUT4+ 38 LOUT4- 37
(FL) LOUT1+ 2 LOUT1- 1
GNZ8D/GNZ9D
IC3731
IC3751 (1/2)
IC3751 (2/2)
IC3771
IC3711
SURROUND L
CENTER
SUBWOOFER
DOWNMIX L
FRONT L
C AUDIO SECTION (Page 37)
GNZ7D
SDPIF 225
DIGITAL OPTICAL TRANSMITTER IC305
DIGITAL OUT (OPTICAL)
X101 27MHz
229 XTALI
228 XTALO
DVD SYSTEM PROCESSOR IC102(2/2)
SCL SDA 102 103
AD0 – AD7 81-84,86-88,91
HIGHA0-7 IOA0-7, IOA18-IOA20 A16, A17 53-61, 67-72, 74-76, 78, 89, 92, 93
IOCS IOUE IOWA 77 79 66
RD0 – RD15 125-123, 121, 120, 118, 117, 115, 135, 133-128, 126
RA0 – RA11 146, 147, 149-151, 158-160, 162, 164-166
BA0 BA1 143 145
RCLK RCS RWE RAS CAS MDQM0 MDQM1 CKE 155 142 138 140 139 134 137 157
HD0 – HD7
A0 – A21
DATA & ADDRESS BUS
DATA & ADDRESS BUS
CE OE WE
6 5 SCL SDA
EEPROM IC103
HD0 – HD7
A0
A1-A20
CE OE WE
29,31,33,35,38,40,42,44 45 25-16, 9-1, 48 26 28 11
DQ0 – DQ7 DQ15/A-1 A0 – A19
CE OE WE
FLASH ROM IC101
2,4,5,7,8,10,11,13,42,44,45,47,48,50,51,53
22-26, 29-35
RD0 – RD15
RA0 – RA11
20 21 38 19 16 18 17 15 39 37
BS0 BS1 DRCLK RCS RWE RAS CAS DQM0 DQM1 DRCKE
SDRAM IC104
• Signal Path
: AUDIO
: VIDEO
: Y
: COMPONENT VIDEO
: DIGITAL

7-3. BLOCK DIAGRAM — AUDIO SECTION —

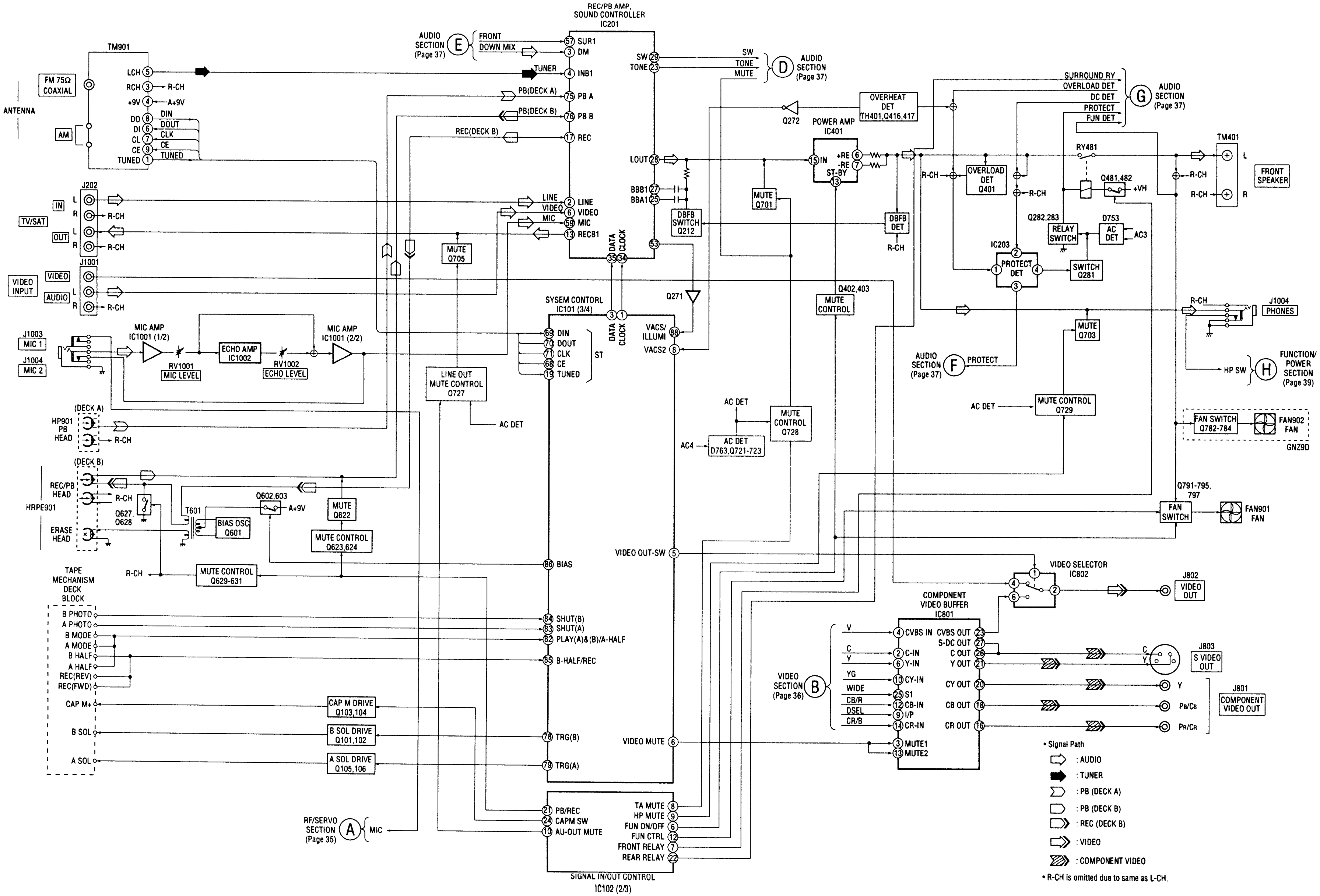

POWER AMP
IC601
GNZ9D
+12V
+12V REG
Q681
+VH
AMP
IC303
CH1
BOOT
MUTE
Q714
OVERLOAD
DETECT
Q671
OVERLOAD
DETECT
Q682,683
RY601
RELAY
DRIVE
Q672,673
TM501 (2/2)
SUBWOOFER
J102
SUB WOOFER
OUT
GNZ7D/
GNZ8D
GNZ7D
GNZ8D/GNZ9D
SURROUND CONTROL
IC301
IN SUR
LINK IN
IN C
IN SW
SW IN
IN DM
IN F
OUT
DOWN MIX
FRONT
DATA
CLK
VIDEO
SECTION
(Page 36)
C
SURROUND L
CENTER
SUBWOOFER
DOWNMIX L
FRONT L
E
MAIN
SECTION
(Page 38)
MUTE
Q796
GNZ7D/
GNZ8D
POWER AMP
IC501
CH2
CH3
STBY
MUTE
Q711
MUTE
Q713
R-CH
OVERLOAD
DETECT
Q551
OVERLOAD
DETECT
Q541
SWITCH
Q520
+VL
OVERLOAD
DETECT
TH501,Q516,517
RELAY
DRIVE
Q581,584
RY581
RY582
TM501 (1/2)
L
REAR
R
SURROUND
SPEAKER
CENTER
FUN DET
PROTECT
DC DET
OVERLOAD DET
SURROUND RY
G
MAIN
SECTION
(Page 38)
MAIN
SECTION
(Page 38)
D
TONE
SW
MUTE
MUTE CONTROL
Q724
CLOSE ← OPEN
S751
(OPEN/CLOSE
DETECT)
SYSTEM CONTROL
IC101(2/4)
CDM EJECT
/PROTECT
DATA
CLK
MAIN
SECTION
(Page 38)
F
PROTECT
RE701
(DISC TRAY
ADDRESS
DETECT)
CDM ENCO/1/2
IC731
TABLE
ADDRESS
SENSOR
Q731
CDM
TBL-SENS
SIGNAL IN/OUT
CONTROL
IC102(1/3)
SW MUTE
SW RELAY
LOD
POS
NEG
TBL
POS
NEG
IC701
LOADING
MOTOR
DRIVE
M
M751
(LOADING)
IC712
TABLE
MOTOR
DRIVE
M
M741
(TABLE)

- Signal Path

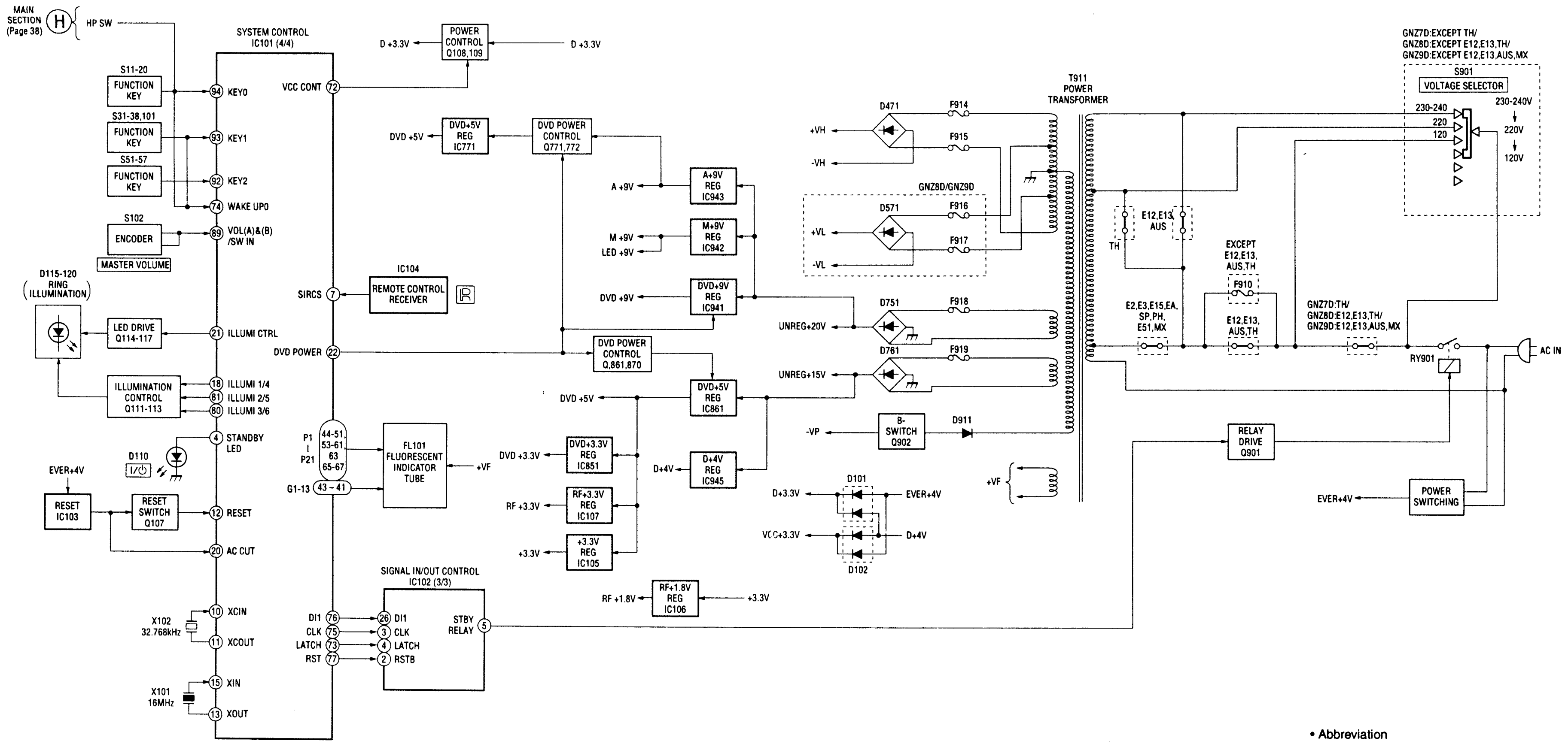
⇨ : AUDIO

- R-CH is omitted due to same as L-CH.

7-4. BLOCK DIAGRAM — MAIN SECTION —


REC/PB AMP, SOUND CONTROLLER IC201
TM901
FM 75Ω COAXIAL
ANTENNA
AM
LCH ⑤
RCH ③ R-CH
+9V ④ A+9V
DO ⑧ DIN
DI ⑥ DOUT
CL ⑦ CLK
CE ⑨ CE
TUNED ① TUNED
AUDIO SECTION (Page 37) E
FRONT
DOWN MIX
57 SUR1
3 DM
TUNER
4 INB1
PB(DECK A)
75 PB A
PB(DECK B)
76 PB B
REC(DECK B)
17 REC
SW 29
TONE 23
SW
TONE
MUTE
D AUDIO SECTION (Page 37)
LOUT 28
BBB1 27
BBA1 25
J202
IN
TV/SAT
OUT
L
R
R-CH
LINE
VIDEO
MIC
2 LINE
6 VIDEO
59 MIC
13 RECB1
DATA
CLOCK
35 34
53
J1001
VIDEO INPUT
VIDEO
AUDIO
MUTE Q705
MUTE Q701
DBFB SWITCH Q212
OVERHEAT DET TH401,Q416,417
Q272
POWER AMP IC401
15 IN
+RE 6
-RE 7
ST-BY 13
DBFB DET
SURROUND RY
OVERLOAD DET
DC DET
PROTECT
FUN DET
G AUDIO SECTION (Page 37)
TM401
FRONT SPEAKER
RY481
Q481,482
+VH
OVERLOAD DET Q401
Q282,283
RELAY SWITCH
D753
AC DET
AC3
IC203
PROTECT DET
SWITCH Q281
Q402,403
MUTE CONTROL
Q271
SYSEM CONTORL IC101 (3/4)
VACS/ ILLUMI 88
VACS2 8
69 DIN
70 DOUT
71 CLK
68 CE
19 TUNED
ST
J1003 MIC 1
J1004 MIC 2
MIC AMP IC1001 (1/2)
RV1001 MIC LEVEL
ECHO AMP IC1002
RV1002 ECHO LEVEL
MIC AMP IC1001 (2/2)
LINE OUT MUTE CONTROL Q727
AC DET
AC DET
AC4
AC DET D763,Q721-723
MUTE CONTROL Q728
J1004 PHONES
MUTE Q703
AUDIO SECTION (Page 37) F PROTECT
AC DET
MUTE CONTROL Q729
HP SW H FUNCTION/ POWER SECTION (Page 39)
FAN SWITCH Q782-784
FAN902 FAN
GNZ9D
(DECK A)
HP901 PB HEAD
(DECK B)
REC/PB HEAD
HRPE901
ERASE HEAD
Q627, Q628
T601
BIAS OSC Q601
Q602,603
A+9V
MUTE Q622
MUTE CONTROL Q623,624
Q791-795, 797
FAN SWITCH
FAN901 FAN
VIDEO OUT-SW 5
86 BIAS
TAPE MECHANISM DECK BLOCK
MUTE CONTROL Q629-631
VIDEO SELECTOR IC802
J802 VIDEO OUT
B PHOTO
A PHOTO
B MODE
A MODE
B HALF
A HALF
REC(REV)
REC(FWD)
CAP M+
B SOL
A SOL
84 SHUT(B)
83 SHUT(A)
82 PLAY(A)&(B)/A-HALF
85 B-HALF/REC
COMPONENT VIDEO BUFFER IC801
V
C
Y
YG
WIDE
CB/R
DSEL
CR/B
VIDEO SECTION (Page 36) B
4 CVBS IN
2 C-IN
6 Y-IN
10 CY-IN
25 S1
12 CB-IN
9 I/P
14 CR-IN
3 MUTE1
13 MUTE2
CVBS OUT 23
S-DC OUT 27
C OUT 26
Y OUT 21
CY OUT 20
CB OUT 18
CR OUT 16
J803 S VIDEO OUT
J801 COMPONENT VIDEO OUT
PB/CB
PR/CR
CAP M DRIVE Q103,104
B SOL DRIVE Q101,102
A SOL DRIVE Q105,106
78 TRG(B)
79 TRG(A)
VIDEO MUTE 6
RF/SERVO SECTION (Page 35) A MIC
21 PB/REC
24 CAPM SW
10 AU-OUT MUTE
TA MUTE 8
HP MUTE 9
FUN ON/OFF 6
FUN CTRL 12
FRONT RELAY 7
REAR RELAY 22
SIGNAL IN/OUT CONTROL IC102 (2/3)
• Signal Path
: AUDIO
: TUNER
: PB (DECK A)
: PB (DECK B)
: REC (DECK B)
: VIDEO
: COMPONENT VIDEO
• R-CH is omitted due to same as L-CH.

7-5. BLOCK DIAGRAM — FUNCTION/POWER SECTION —


MAIN SECTION (H) (Page 38)
HP SW
SYSTEM CONTROL IC101 (4/4)
S11-20 FUNCTION KEY
S31-38,101 FUNCTION KEY
S51-57 FUNCTION KEY
S102 ENCODER
MASTER VOLUME
94 KEY0
93 KEY1
92 KEY2
74 WAKE UP0
89 VOL(A)&(B) /SW IN
D115-120 (RING ILLUMINATION)
LED DRIVE Q114-117
21 ILLUMI CTRL
ILLUMINATION CONTROL Q111-113
18 ILLUMI 1/4
81 ILLUMI 2/5
80 ILLUMI 3/6
4 STANDBY LED
D110
I/⏻
EVER+4V
RESET IC103
RESET SWITCH Q107
12 RESET
20 AC CUT
X102 32.768kHz
10 XCIN
11 XCOUT
X101 16MHz
15 XIN
13 XOUT
VCC CONT 72
SIRCS 7
DVD POWER 22
P1 I P21 44-51, 53-61, 63 65-67
G1-13 43 - 41
D +3.3V
POWER CONTROL Q108,109
D +3.3V
DVD +5V
DVD+5V REG IC771
DVD POWER CONTROL Q771,772
IC104 REMOTE CONTROL RECEIVER
FL101 FLUORESCENT INDICATOR TUBE
+VF
SIGNAL IN/OUT CONTROL IC102 (3/3)
DI1 76 → 26 DI1
CLK 75 → 3 CLK
LATCH 73 → 4 LATCH
RST 77 → 2 RSTB
STBY RELAY 5
A +9V
A+9V REG IC943
M +9V
LED +9V
M+9V REG IC942
DVD +9V
DVD+9V REG IC941
DVD POWER CONTROL Q,861,870
DVD +5V
DVD+5V REG IC861
DVD +3.3V
DVD+3.3V REG IC851
RF +3.3V
RF+3.3V REG IC107
+3.3V
+3.3V REG IC105
D+4V
D+4V REG IC945
RF +1.8V
RF+1.8V REG IC106
+3.3V
+VH
-VH
D471
F914
F915
GNZ8D/GNZ9D
D571
F916
F917
+VL
-VL
D751
F918
UNREG+20V
D761
F919
UNREG+15V
-VP
B-SWITCH Q902
D911
D101
D+3.3V
EVER+4V
VCC+3.3V
D+4V
D102
+VF
T911 POWER TRANSFORMER
E12,E13, AUS
TH
E2,E3,E15,EA, SP,PH, E51,MX
EXCEPT E12,E13, AUS,TH
F910
E12,E13, AUS,TH
GNZ7D:TH/ GNZ8D:E12,E13,TH/ GNZ9D:E12,E13,AUS,MX
GNZ7D:EXCEPT TH/ GNZ8D:EXCEPT E12,E13,TH/ GNZ9D:EXCEPT E12,E13,AUS,MX
S901 VOLTAGE SELECTOR
230-240
220
120
230-240V
220V
120V
RY901
AC IN
RELAY DRIVE Q901
EVER+4V
POWER SWITCHING

• Abbreviation
E2 : 120 V AC area in E model
E3 : 240 V AC area in E model
E12 : 220-240 V AC area in E model
E13 : 220-230 V AC area in E model
E15 : Iran model
E51 : Chilean and Peruvian model
AUS : Australian model
EA : Saudi arabia model
PH : Philippine model
SP : Singapore model
MX : Mexican model
TH : Thai model

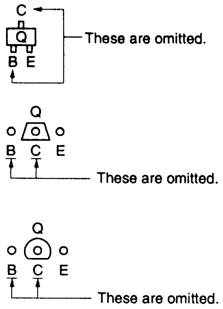
• Note For Printed Wiring Boards And Schematic Diagrams

Note on Printed Wiring Board:

- o—— : parts extracted from the component side.
- —— : parts extracted from the conductor side.
- ▨ : Pattern from the side which enables seeing. (The other layer's patterns are not indicated.)

Caution:	
Pattern face side: (Conductor Side)	Parts on the pattern face side seen from the pattern face are indicated.
Parts face side: (Component Side)	Parts on the parts face side seen from the parts face are indicated.

- Indication of transistor.


C
Q
B E
These are omitted.
Q
B C E
These are omitted.
Q
B C E
These are omitted.

UNLEADED SOLDER

Boards requiring use of unleaded solder are printed with the lead free mark (LF) indicating the solder contains no lead.

(Caution: Some printed circuit boards may not come printed with the lead free mark due to their particular size)

LF : LEAD FREE MARK

Unleaded solder has the following characteristics.

- Unleaded solder melts at a temperature about 40 °C higher than ordinary solder.
  Ordinary soldering irons can be used but the iron tip has to be applied to the solder joint for a slightly longer time.
  Soldering irons using a temperature regulator should be set to about 350 °C.
  Caution: The printed pattern (copper foil) may peel away if the heated tip is applied for too long, so be careful!
- Strong viscosity
  Unleaded solder is more viscou-s (sticky, less prone to flow) than ordinary solder so use caution not to let solder bridges occur such as on IC pins, etc.
- Usable with ordinary solder
  It is best to use only unleaded solder but unleaded solder may also be added to ordinary solder.

Note on Schematic Diagram:

- All capacitors are in μF unless otherwise noted. (p: pF) 50 WV or less are not indicated except for electrolytics and tantalums.
- All resistors are in Ω and ¼ W or less unless otherwise specified.
- -▭- : nonflammable resistor.
- ▭ : panel designation.

> **Note:** The components identified by mark ⚠ or dotted line with mark ⚠ are critical for safety.
> Replace only with part number specified.

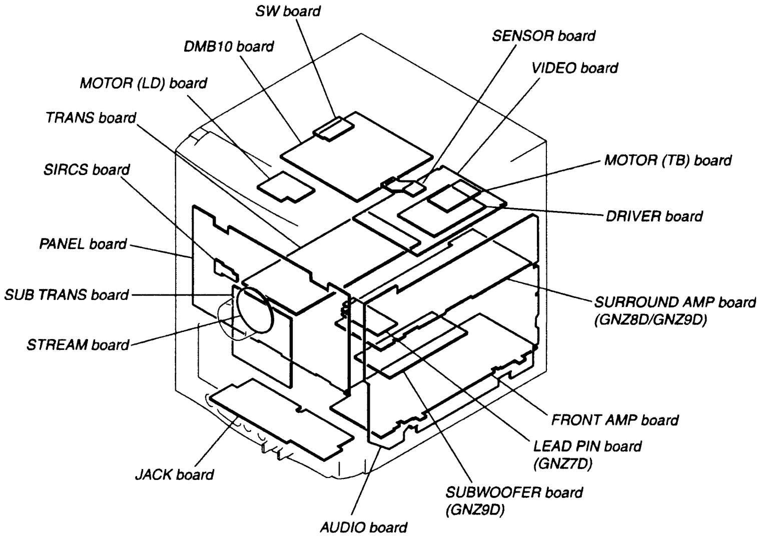
- ▬ : B+ Line.
- ▬ ▬ ▬ : B– Line.
- Voltage and waveforms are dc with respect to ground under no-signal (detuned) conditions.
  no mark : FM
  * : Impossible to measure
- Voltages are taken with a VOM (Input impedance 10 MΩ). Voltage variations may be noted due to normal production tolerances.
- Waveforms are taken with a oscilloscope. Voltage variations may be noted due to normal production tolerances.
- Circled numbers refer to waveforms.
- Signal path.

⇨	: AUDIO
➡	: TUNER
⇨⟩	: VIDEO (COMPONENT)
⟫⟩	: VIDEO (COMPOSITE)
⟩	: TAPE PLAY (DECK A)
▷	: TAPE PLAY (DECK B)
▷⟩	: TAPE REC (DECK B)
⇨	: DVD (AUDIO)
⇨⟩	: DVD (RF)
⇨⟩⟩	: DVD (DIGITAL)

- Abbreviation

E2	: 120 V AC area in E model
E3	: 240 V AC area in E model
E12	: 220-240 V AC area in E model
E13	: 220-230 V AC area in E model
E15	: Iran model
E51	: Chilean and Peruvian model
AUS	: Australian model
EA	: Saudi arabia model
PH	: Philippine model
SP	: Singapore model
MX	: Mexican model
TH	: Thai model

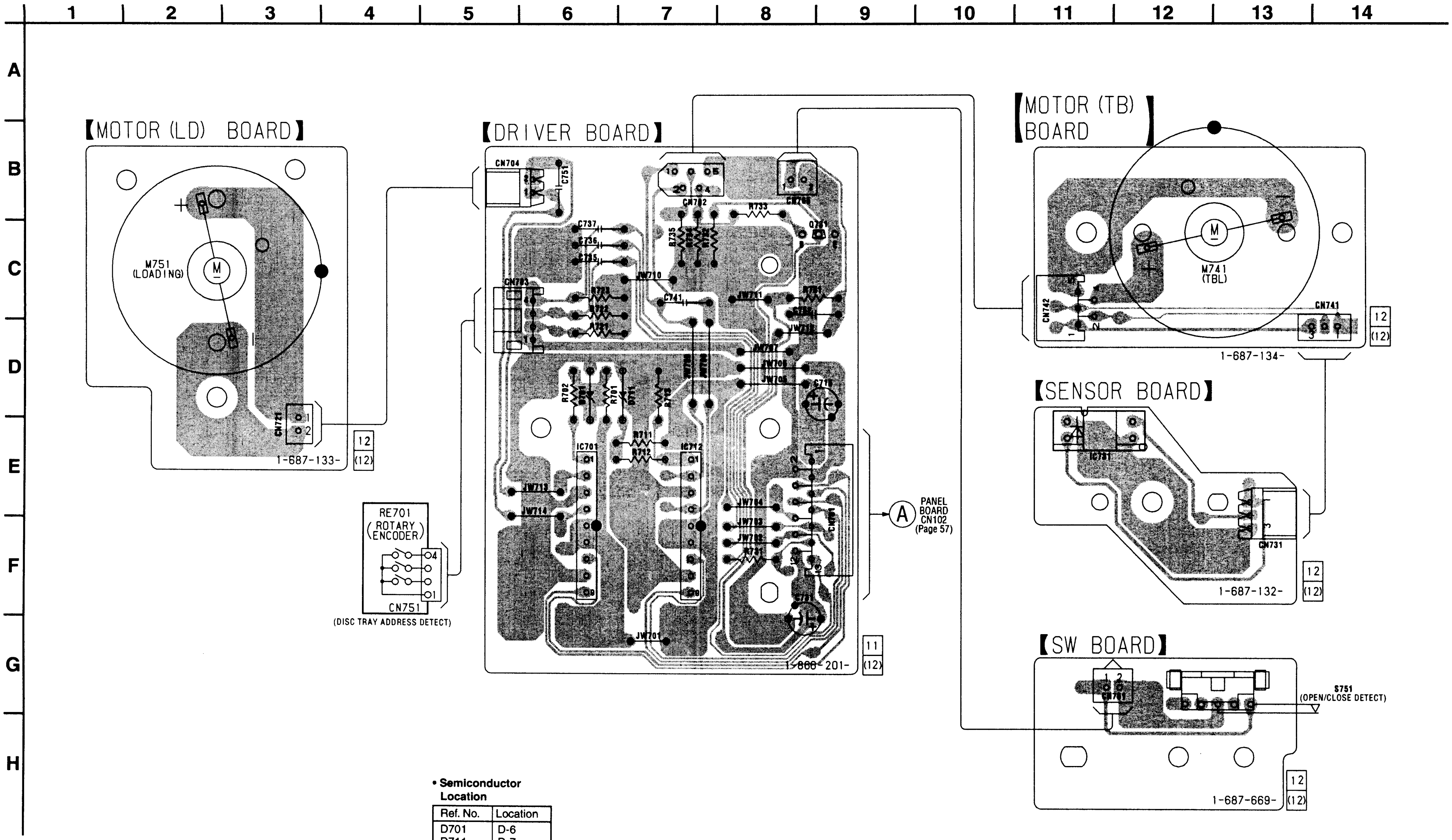
• Circuit Boards Location


SW board
DMB10 board
SENSOR board
VIDEO board
MOTOR (LD) board
TRANS board
MOTOR (TB) board
SIRCS board
DRIVER board
PANEL board
SUB TRANS board
SURROUND AMP board (GNZ8D/GNZ9D)
STREAM board
FRONT AMP board
LEAD PIN board (GNZ7D)
JACK board
SUBWOOFER board (GNZ9D)
AUDIO board

7-6. PRINTED WIRING BOARDS — DRIVER SECTION —

- Refer to page 40 for Circuit Boards Location.

Ⓛ : Uses unleaded solder.

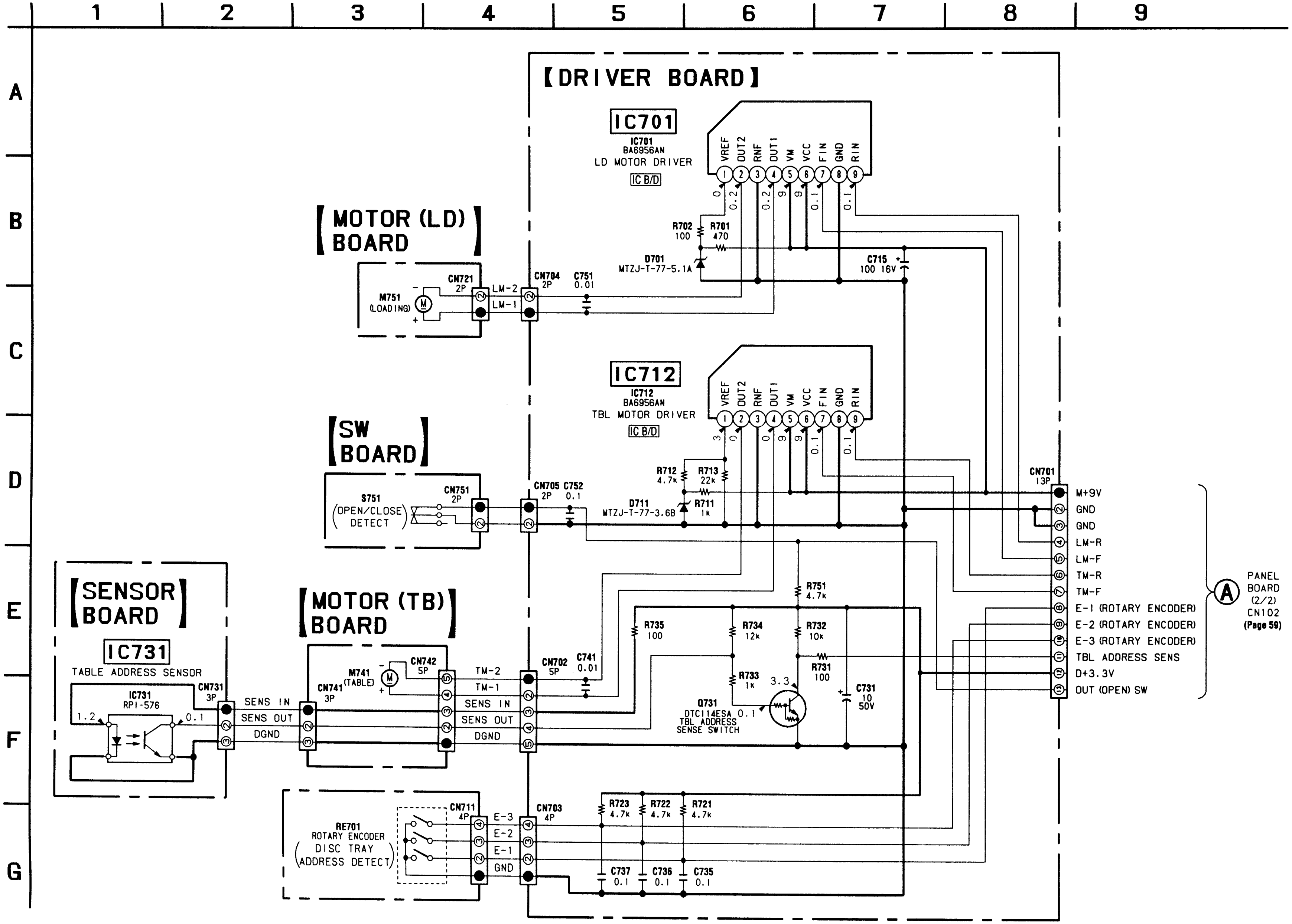

1 2 3 4 5 6 7 8 9 10 11 12 13 14
A B C D E F G H
【MOTOR (LD) BOARD】
M751 (LOADING)
M
CN721
1-687-133-
12 (12)
【DRIVER BOARD】
CN704
C751
CN703
CN702
CN705
C737
C736
C735
R735
R733
Q731
JW710
C741
JW711
R751
JW712
R703
R704
R705
JW707
JW708
JW709
C710
R702
R701
R711
R712
IC701
IC712
JW713
JW714
JW704
JW703
JW702
R731
C731
CN701
JW701
1-868-201-
11 (12)
RE701 (ROTARY ENCODER)
CN751
(DISC TRAY ADDRESS DETECT)
A
PANEL BOARD CN102 (Page 57)
【MOTOR (TB) BOARD】
M741 (TBL)
CN742
CN741
1-687-134-
12 (12)
【SENSOR BOARD】
IC731
CN731
1-687-132-
12 (12)
【SW BOARD】
CN701
S751 (OPEN/CLOSE DETECT)
1-687-669-
12 (12)

- **Semiconductor Location**

Ref. No.	Location
D701	D-6
D711	D-7
IC701	E-6
IC712	E-7
IC731	E-11
Q731	C-9

7-7. SCHEMATIC DIAGRAM — DRIVER SECTION —

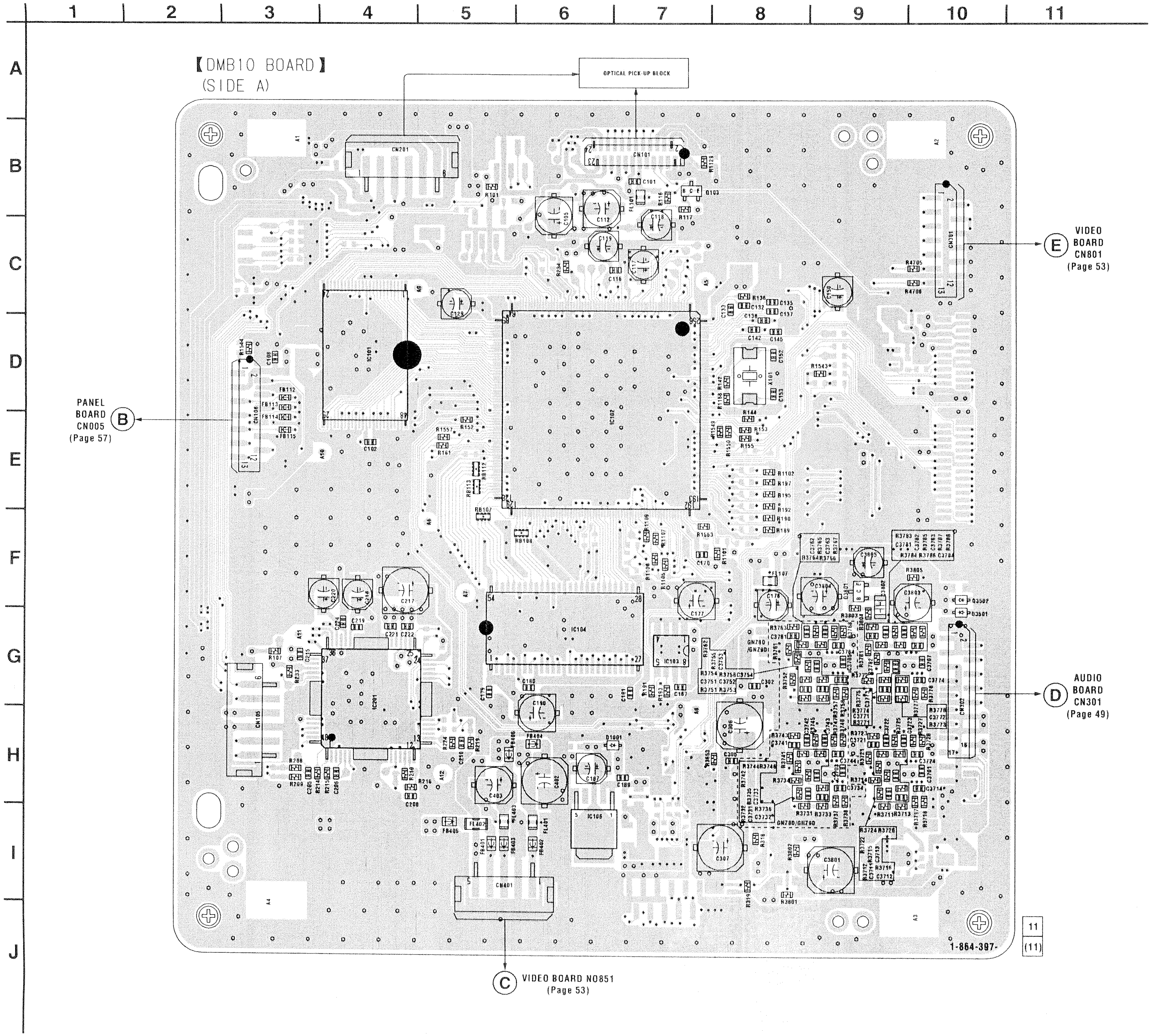
- See page 70 for IC Block Diagrams.


1
2
3
4
5
6
7
8
9
A
B
C
D
E
F
G
【DRIVER BOARD】
IC701
IC701
BA6956AN
LD MOTOR DRIVER
IC B/D
VREF
OUT2
RNF
OUT1
VM
VCC
FIN
GND
RIN
0
0.2
0.2
9
9
0.1
0.1
R702
100
R701
470
D701
MTZJ-T-77-5.1A
C715
100 16V
【MOTOR (LD) BOARD】
M751
(LOADING)
CN721
2P
LM-2
LM-1
CN704
2P
C751
0.01
IC712
IC712
BA6956AN
TBL MOTOR DRIVER
IC B/D
3
0
0
9
9
0.1
0.1
R712
4.7k
R713
22k
D711
MTZJ-T-77-3.6B
R711
1k
【SW BOARD】
S751
(OPEN/CLOSE DETECT)
CN751
2P
CN705
2P
C752
0.1
CN701
13P
M+9V
GND
GND
LM-R
LM-F
TM-R
TM-F
E-1 (ROTARY ENCODER)
E-2 (ROTARY ENCODER)
E-3 (ROTARY ENCODER)
TBL ADDRESS SENS
D+3.3V
OUT (OPEN) SW
A
PANEL BOARD
(2/2)
CN102
(Page 59)
【SENSOR BOARD】
IC731
TABLE ADDRESS SENSOR
IC731
RPI-576
1.2
0.1
CN731
3P
SENS IN
SENS OUT
DGND
【MOTOR (TB) BOARD】
M741
(TABLE)
CN742
5P
CN741
3P
TM-2
TM-1
SENS IN
SENS OUT
DGND
CN702
5P
C741
0.01
R735
100
R734
12k
R732
10k
R751
4.7k
R733
1k
3.3
R731
100
C731
10
50V
Q731
DTC114ESA
0.1
TBL ADDRESS SENSE SWITCH
RE701
ROTARY ENCODER
(DISC TRAY ADDRESS DETECT)
CN711
4P
E-3
E-2
E-1
GND
CN703
4P
R723
4.7k
R722
4.7k
R721
4.7k
C737
0.1
C736
0.1
C735
0.1

7-8. PRINTED WIRING BOARD — DMB10 SECTION (SIDE A) —

- Refer to page 40 for Circuit Boards Location.

LF : Uses unleaded solder.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A
B
C
D
E
F
G
H
I
J
【DMB10 BOARD】
(SIDE A)
OPTICAL PICK-UP BLOCK
CN201
CN101
VIDEO BOARD CN801 (Page 53)
E
PANEL BOARD CN005 (Page 57)
B
IC101
IC102
IC104
IC103
IC201
IC106
CN401
AUDIO BOARD CN301 (Page 49)
D
C
VIDEO BOARD NO851 (Page 53)
1-864-397-
11
(11)

- Semiconductor Location

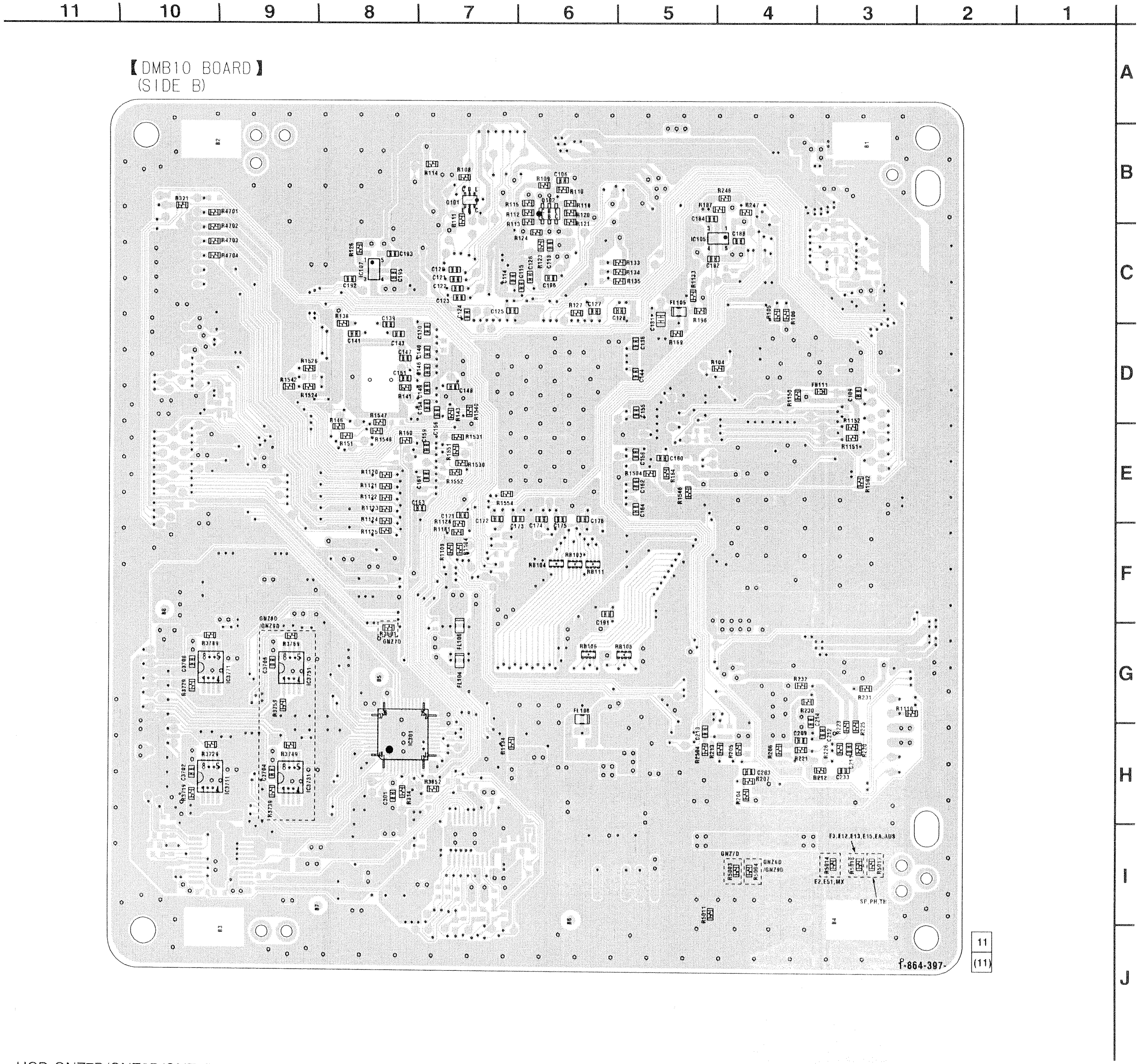
Ref. No.	Location
D1001	H-6
D3501	F-10
D3502	F-10
IC101	D-4
IC102	E-6
IC103	G-7
IC104	G-6
(IC105)	C-5
IC106	I-6
(IC107)	C-8
IC201	G-4
(IC301)	H-8
(IC3711)	H-10
(IC3731)	H-9
(IC3751)	G-9
(IC3771)	G-10
(Q101)	B-7
(Q102)	B-6
Q103	B-7
Q3801	F-9

( ): SIDE B

7-9. PRINTED WIRING BOARD — DMB10 SECTION (SIDE B) —

- Refer to page 40 for Circuit Boards Location.

LF : Uses unleaded solder.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1
A
B
C
D
E
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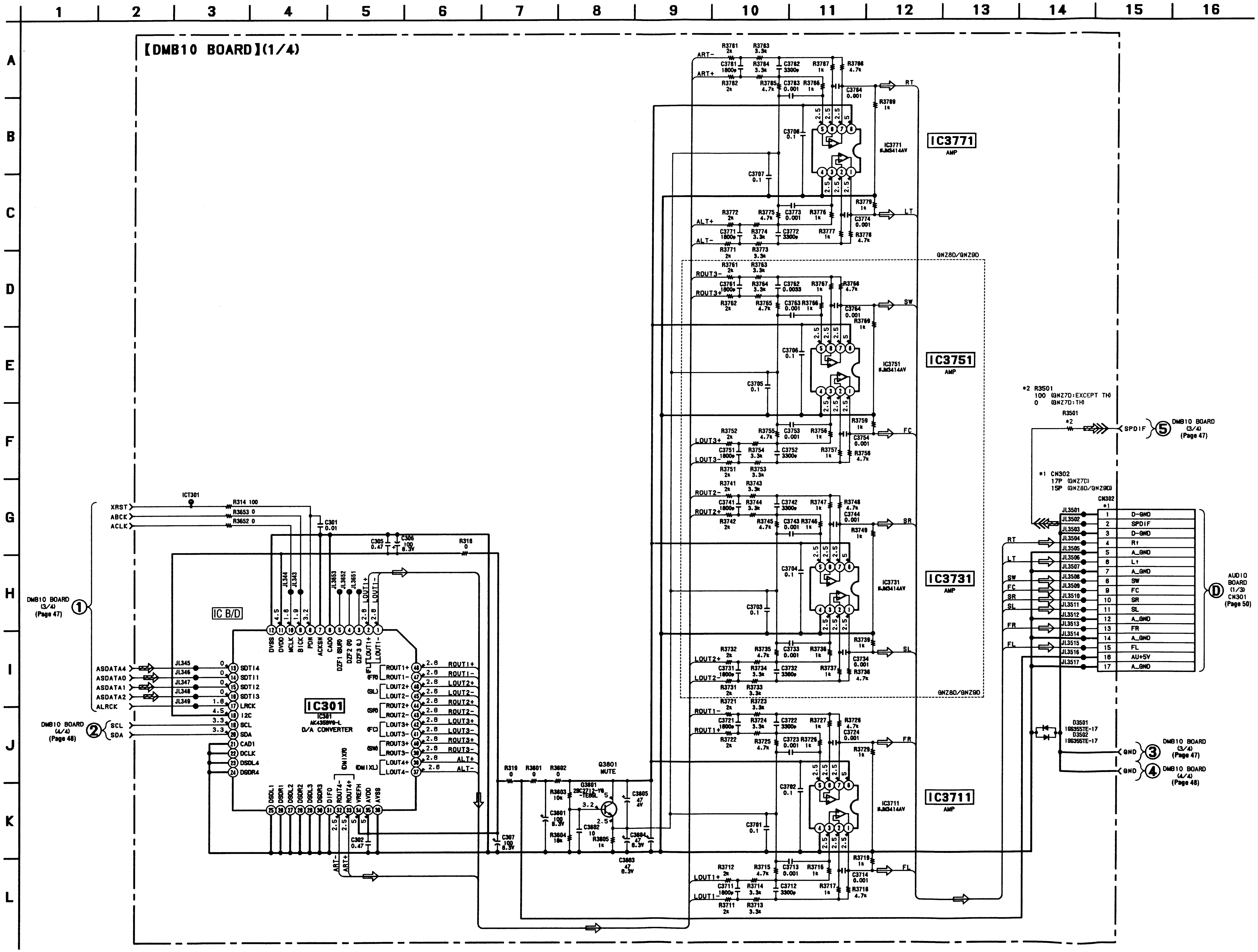
H
I
J
【DMB10 BOARD】
(SIDE B)
IC101
IC105
IC107
IC301
IC3701
IC3751
1-864-397-
11
(11)
GNZ7D
GNZ8D
/GNZ9D
E3,E12,E13,E15,EA,AUS
E2,E51,MX
SP,PH,TH

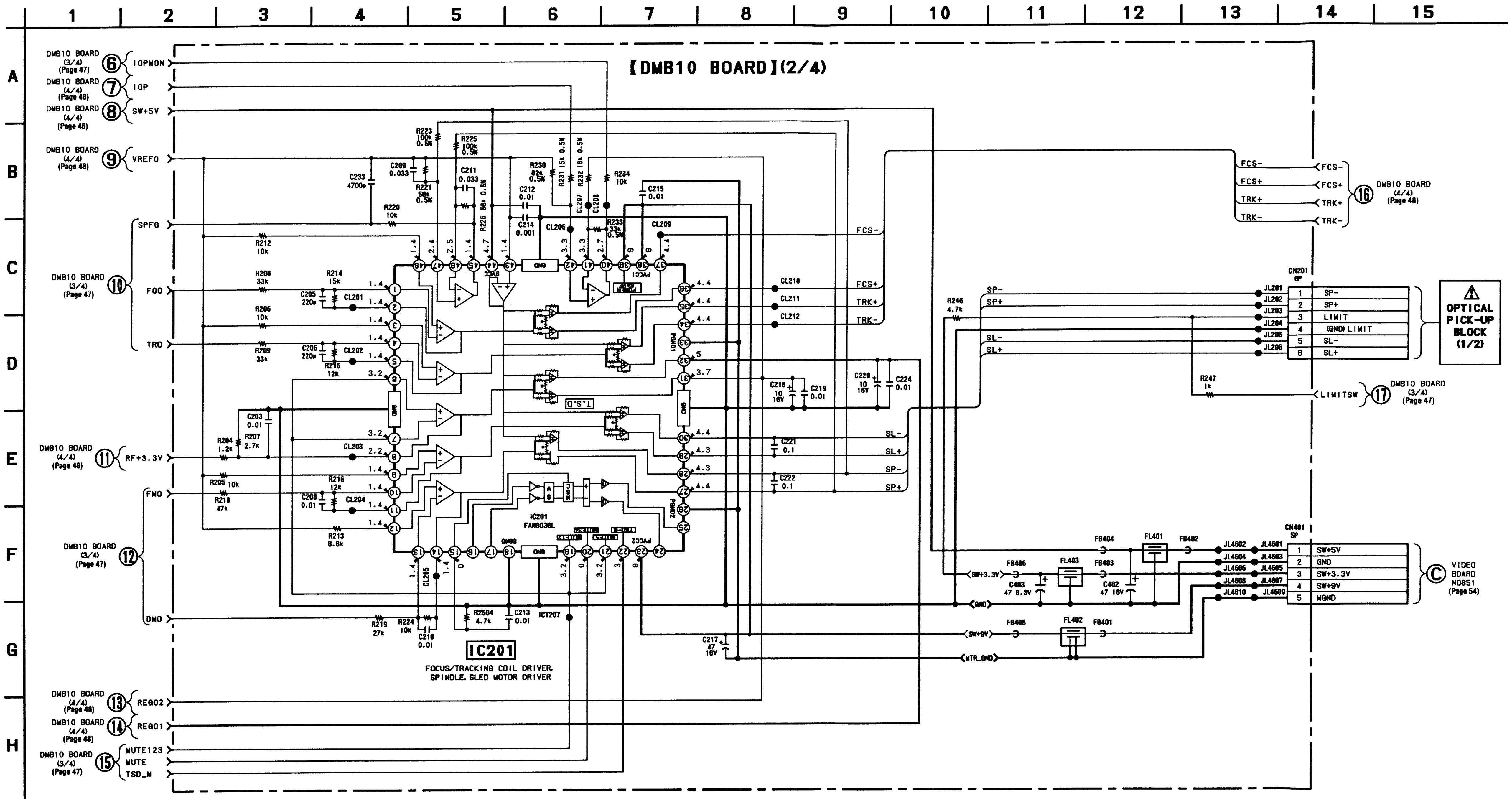
44

7-10. SCHEMATIC DIAGRAM — DMB10 SECTION (1/4) —

- See page 70 for IC Block Diagrams.


【DMB10 BOARD】(1/4)
1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16
A B C D E F G H I J K L
DMB10 BOARD (3/4) (Page 47) ①
XRST
ABCK
ACLK
ICT301
R314 100
R3653 0
R3652 0
C301 0.01
C305 0.47
C306 100 6.3V
R318 0
ASDATA4
ASDATA0
ASDATA1
ASDATA2
ALRCK
JL345
JL346
JL347
JL348
JL349
DMB10 BOARD (4/4) (Page 48) ②
SCL
SDA
IC B/D
IC301
IC301 AK4358VQ-L D/A CONVERTER
DVSS
DVDD
MCLK
BICK
PDN
ACKSN
CAD0
DZF1 (SUR)
DZF2 (R)
DZF3 (L)
LOUT1+
LOUT1-
SDTI4
SDTI1
SDTI2
SDTI3
LRCK
I2C
CAD1
DCLK
DSDL4
DSDR4
DSDL1
DSDR1
DSDL2
DSDR2
DSDL3
DSDR3
DIF0
ROUT4-
ROUT4+
VREFH
AVDD
AVSS
ROUT1+
ROUT1-
LOUT2+
LOUT2-
ROUT2+
ROUT2-
LOUT3+
LOUT3-
ROUT3+
ROUT3-
LOUT4+
LOUT4-
ALT+
ALT-
ART-
ART+
(FL)
(FR)
(SL)
(SR)
(FC)
(SW)
(DMIXR)
(DMIXL)
C302 0.47
C307 100 6.3V
R319 0
R3801 0
R3802 0
Q3801 MUTE
Q3801 2SC2712-YG -TE85L
R3803 10k
C3801 100 6.3V
C3802 10
R3804 18k
R3805 1k
C3805 47 4V
C3804 47 6.3V
C3803 47 6.3V
IC3771 AMP
IC3771 NJM3414AV
IC3751 AMP
IC3751 NJM3414AV
IC3731 AMP
IC3731 NJM3414AV
IC3711 AMP
IC3711 NJM3414AV
GNZ8D/GNZ9D
RT
LT
SW
FC
SR
SL
FR
FL
ROUT3-
ROUT3+
LOUT3+
LOUT3-
ROUT2-
ROUT2+
LOUT2+
LOUT2-
ROUT1-
ROUT1+
LOUT1+
LOUT1-
*2 R3501
100 (GNZ7D:EXCEPT TH)
0 (GNZ7D:TH)
R3501 *2
SPDIF
DMB10 BOARD (3/4) (Page 47) ⑤
*1 CN302
17P (GNZ7D)
15P (GNZ8D/GNZ9D)
CN302 *1
JL3501 1 D-GND
JL3502 2 SPDIF
JL3503 3 D-GND
JL3504 4 Rt
JL3505 5 A_GND
JL3506 6 Lt
JL3507 7 A_GND
JL3508 8 SW
JL3509 9 FC
JL3510 10 SR
JL3511 11 SL
JL3512 12 A_GND
JL3513 13 FR
JL3514 14 A_GND
JL3515 15 FL
JL3516 16 AU+5V
JL3517 17 A_GND
AUDIO BOARD (1/3) CN301 (Page 50) Ⓓ
D3501 1SS355TE-17
D3502 1SS355TE-17
GND DMB10 BOARD (3/4) (Page 47) ③
GND DMB10 BOARD (4/4) (Page 48) ④

7-11. SCHEMATIC DIAGRAM — DMB10 SECTION (2/4) —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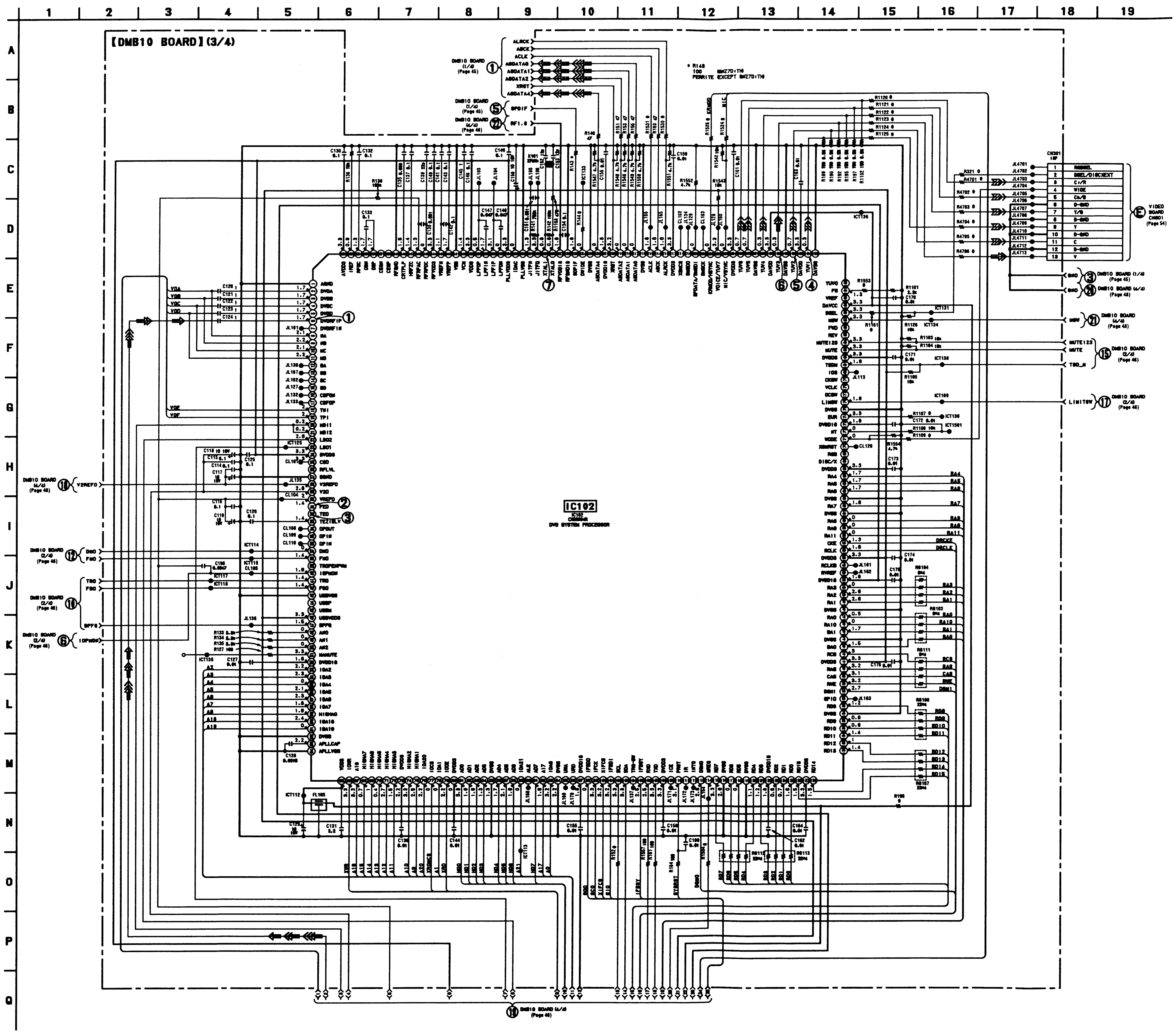
【DMB10 BOARD】(2/4)
DMB10 BOARD (3/4) (Page 47) ⑥ IOPMON
DMB10 BOARD (4/4) (Page 48) ⑦ IOP
DMB10 BOARD (4/4) (Page 48) ⑧ SW+5V
DMB10 BOARD (4/4) (Page 48) ⑨ VREFO
SPFG
DMB10 BOARD (3/4) (Page 47) ⑩ FOO
TRO
DMB10 BOARD (4/4) (Page 48) ⑪ RF+3.3V
FMO
DMB10 BOARD (3/4) (Page 47) ⑫
DMO
DMB10 BOARD (4/4) (Page 48) ⑬ REG02
DMB10 BOARD (4/4) (Page 48) ⑭ REG01
DMB10 BOARD (3/4) (Page 47) ⑮ MUTE123 MUTE TSD_M
FCS-
FCS+
TRK+
TRK-
DMB10 BOARD (4/4) (Page 48) ⑯
CN201 6P
JL201 JL202 JL203 JL204 JL205 JL206
1 SP-
2 SP+
3 LIMIT
4 (GND) LIMIT
5 SL-
6 SL+
OPTICAL PICK-UP BLOCK (1/2)
LIMITSW ⑰ DMB10 BOARD (3/4) (Page 47)
R247 1k
R246 4.7k
SP- SP+ SL- SL+
CN401 5P
1 SW+5V
2 GND
3 SW+3.3V
4 SW+9V
5 MGND
Ⓒ VIDEO BOARD NO851 (Page 54)
FB401 FB402 FB403 FB404 FB405 FB406
FL401 FL402 FL403
C402 47 16V
C403 47 6.3V
JL4601 JL4602 JL4603 JL4604 JL4605 JL4606 JL4607 JL4608 JL4609 JL4610
SW+3.3V
GND
SW+9V
MTR_GND
IC201 FAN8038L
T.S.D
PVCC1
PVCC2
PGND1
PGND2
SGND
GND
IC201
FOCUS/TRACKING COIL DRIVER, SPINDLE, SLED MOTOR DRIVER
R212 10k
R208 33k
R206 10k
R209 33k
R214 15k
R215 12k
R216 12k
R213 6.8k
R204 1.2k
R207 2.7k
R205 10k
R210 47k
R219 27k
R224 10k
R2504 4.7k
R220 10k
R221 56k 0.5%
R223 100k 0.5%
R225 100k 0.5%
R226 56k 0.5%
R230 82k 0.5%
R231 15k 0.5%
R232 18k 0.5%
R233 33k 0.5%
R234 10k
C203 0.01
C205 220p
C206 220p
C208 0.01
C209 0.033
C211 0.033
C212 0.01
C213 0.01
C214 0.001
C215 0.01
C216 0.01
C217 47 16V
C218 10 16V
C219 0.01
C220 10 16V
C224 0.01
C221 0.1
C222 0.1
C233 4700p
CL201 CL202 CL203 CL204 CL205 CL206 CL207 CL208 CL209 CL210 CL211 CL212
ICT207
SL- SL+ SP- SP+

7-12. SCHEMATIC DIAGRAM — DMB10 SECTION (3/4) —

- See page 69 for Waveforms.
- See page 30 for IC Pin Function Description.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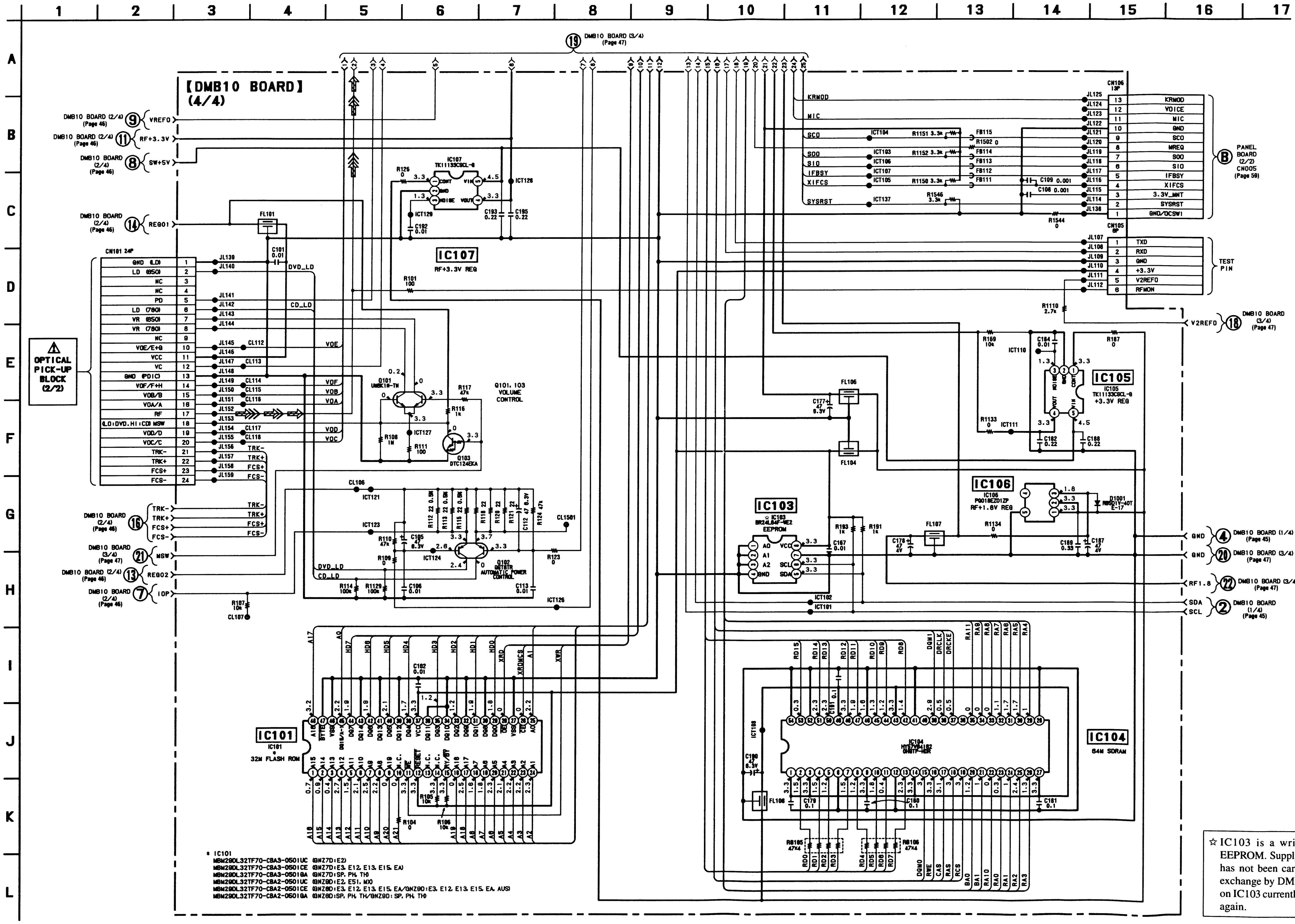
H
I
J
K
L
M
N
O
P
Q
[DMB10 BOARD] (3/4)
DMB10 BOARD (1/4) (Page 45) ①
ALRCK
ABCK
ACLK
ASDATA0
ASDATA1
ASDATA2
XRST
ASDATA4
DMB10 BOARD (1/4) (Page 45) ⑤
SPDIF
DMB10 BOARD (4/4) (Page 48) ㉒
RF1.8
* R143
100 GNZ7D:TH
FERRITE EXCEPT GNZ7D:TH
IC102
IC102
DVD SYSTEM PROCESSOR
CN301
13P
RGBSEL
DSEL/DISCXEXT
Cr/R
WIDE
Cb/B
D-GND
Y/G
D-GND
Y
D-GND
C
D-GND
V
VIDEO BOARD CN801 (Page 54) Ⓔ
GND
DMB10 BOARD (1/4) (Page 45) ③
GND
DMB10 BOARD (4/4) (Page 48) ⑳
MSW
DMB10 BOARD (4/4) (Page 48) ㉑
MUTE123
MUTE
TSD_N
DMB10 BOARD (2/4) (Page 46) ⑮
LIMITSW
DMB10 BOARD (2/4) (Page 46) ⑰
V2REFO
DMB10 BOARD (4/4) (Page 48) ⑱
DMO
FMO
DMB10 BOARD (2/4) (Page 46) ⑫
TRO
FSO
SPFG
DMB10 BOARD (2/4) (Page 46) ⑩
IOPMON
DMB10 BOARD (2/4) (Page 46) ⑥
DMB10 BOARD (4/4) (Page 48) ⑲

7-13. SCHEMATIC DIAGRAM — DMB10 SECTION (4/4) —


1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17
A B C D E F G H I J K L
[DMB10 BOARD] (4/4)
⑲ DMB10 BOARD (3/4) (Page 47)
DMB10 BOARD (2/4) (Page 46) ⑨ VREFO
DMB10 BOARD (2/4) (Page 46) ⑪ RF+3.3V
DMB10 BOARD (2/4) (Page 46) ⑧ SW+5V
DMB10 BOARD (2/4) (Page 46) ⑭ REG01
CN101 24P
OPTICAL PICK-UP BLOCK (2/2)
DMB10 BOARD (2/4) (Page 46) ⑯ TRK- TRK+ FCS+ FCS-
DMB10 BOARD (3/4) (Page 47) ㉑ MSW
DMB10 BOARD (2/4) (Page 46) ⑬ REG02
DMB10 BOARD (2/4) (Page 46) ⑦ IOP
IC107 TK11133CSCL-G
IC107 RF+3.3V REG
Q101, 103 VOLUME CONTROL
Q102 2SB1132 AUTOMATIC POWER CONTROL
IC103 BR24L64F-WE2 EEPROM
IC105 TK11133CSCL-G +3.3V REG
IC106 PQ018EZ01ZP RF+1.8V REG
IC101 32M FLASH ROM
IC104 64M SDRAM
CN106 13P
CN105 6P
KRMOD VOICE MIC GND SCO MREQ SOO SIO IFBSY XIFCS 3.3V_MNT SYSRST GND/DCSW1
PANEL BOARD (2/2) CN005 (Page 59) Ⓑ
TXD RXD GND +3.3V V2REFO RFMON
TEST PIN
V2REFO ⑱ DMB10 BOARD (3/4) (Page 47)
GND ④ DMB10 BOARD (1/4) (Page 45)
GND ⑳ DMB10 BOARD (3/4) (Page 47)
RF1.8 ㉒ DMB10 BOARD (3/4) (Page 47)
SDA SCL ② DMB10 BOARD (1/4) (Page 45)

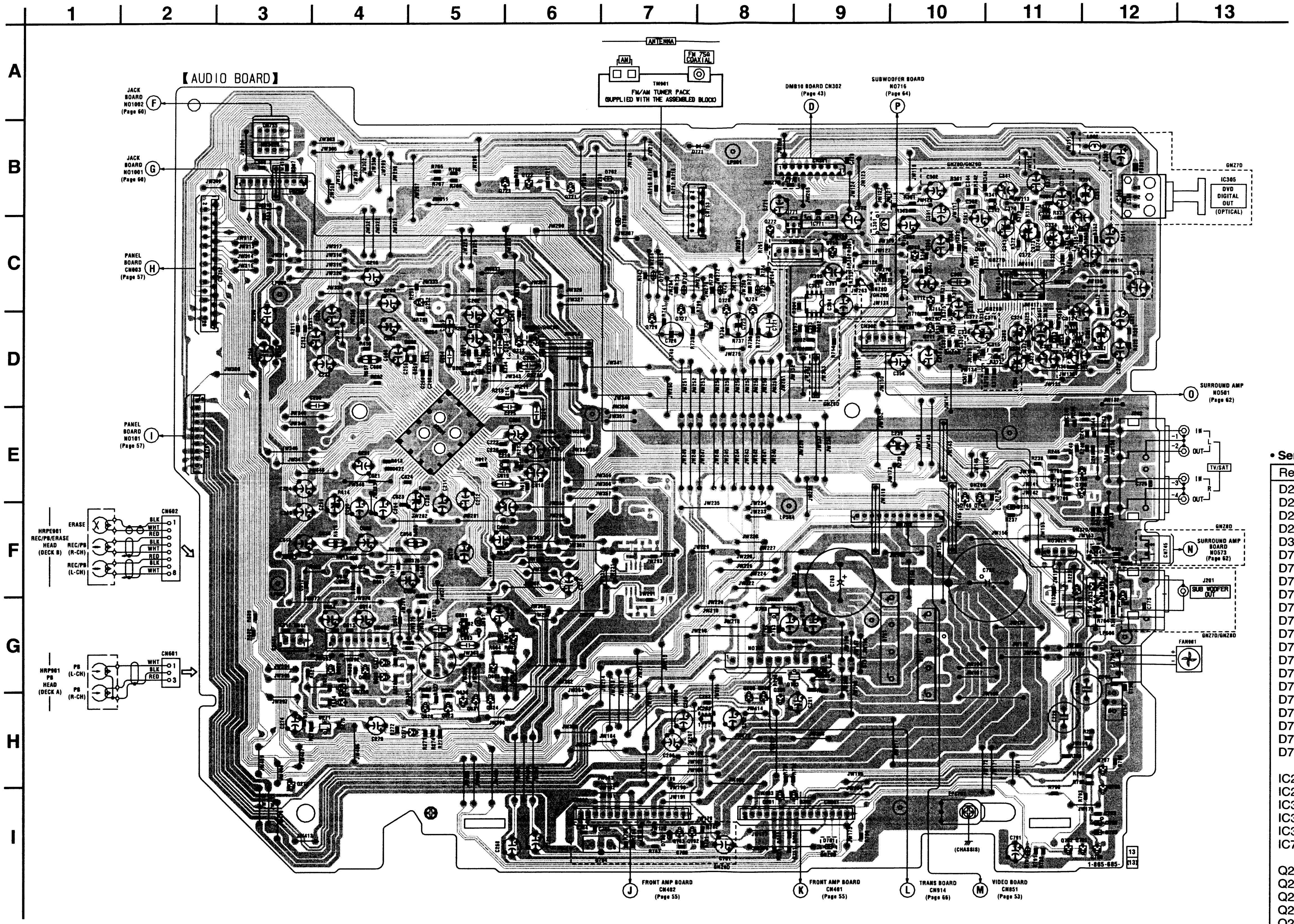
* IC101
MBM29DL32TF70-CBA3-0501UC (GNZ7D:E2)
MBM29DL32TF70-CBA3-0501CE (GNZ7D:E3, E12, E13, E15, EA)
MBM29DL32TF70-CBA3-0501GA (GNZ7D:SP, PH, TH)
MBM29DL32TF70-CBA2-0501UC (GNZ8D:E2, E51, MX)
MBM29DL32TF70-CBA2-0501CE (GNZ8D:E3, E12, E13, E15, EA/GNZ9D:E3, E12, E13, E15, EA, AUS)
MBM29DL32TF70-CBA2-0501GA (GNZ8D:SP, PH, TH/GNZ9D: SP, PH, TH)

☆IC103 is a written in and settled EEPROM. Supply with a single article has not been carried out. In case you exchange by DMB10 board, please put on IC103 currently used with the model again.

7-14. PRINTED WIRING BOARD — AUDIO SECTION —

• Refer to page 40 for Circuit Boards Location.

LF : Uses unleaded solder.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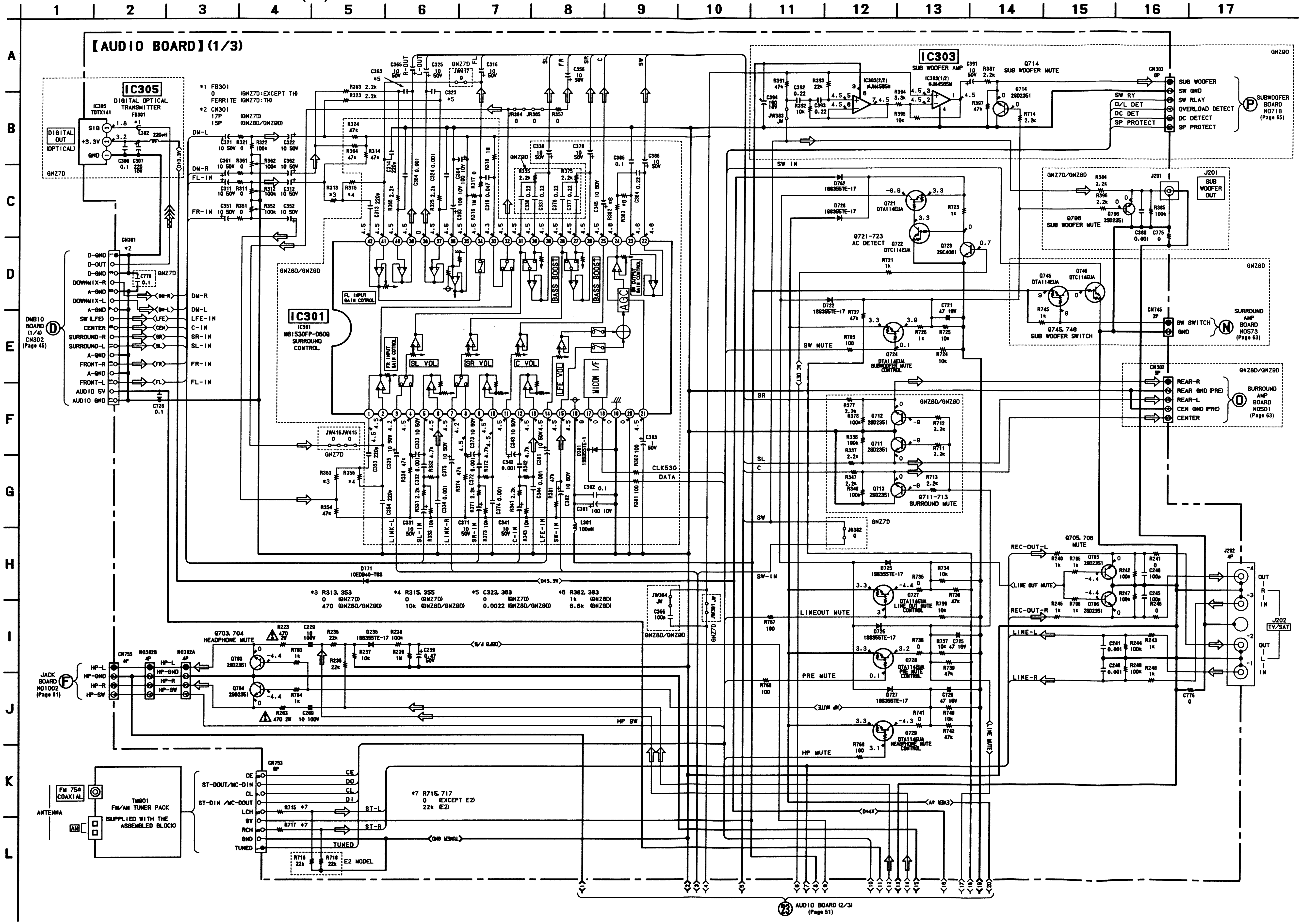
【AUDIO BOARD】
ANTENNA
AM
FM 75Ω COAXIAL
TM901
FM/AM TUNER PACK
(SUPPLIED WITH THE ASSEMBLED BLOCK)
DMB10 BOARD CN302 (Page 43)
SUBWOOFER BOARD NO716 (Page 64)
JACK BOARD NO1002 (Page 60)
JACK BOARD NO1001 (Page 60)
PANEL BOARD CN003 (Page 57)
PANEL BOARD NO101 (Page 57)
HRPE901 REC/PB/ERASE HEAD (DECK B)
ERASE
REC/PB (R-CH)
REC/PB (L-CH)
CN602
BLK
WHT
RED
HRP901 PB HEAD (DECK A)
PB (L-CH)
PB (R-CH)
CN601
GNZ7D
IC305
DVD DIGITAL OUT (OPTICAL)
GNZ8D/GNZ9D
SURROUND AMP NO501 (Page 62)
IN
OUT
L
R
TV/SAT
GNZ8D
CN745
SURROUND AMP BOARD NO573 (Page 62)
J201
SUB WOOFER OUT
GNZ7D/GNZ8D
FAN901
FRONT AMP BOARD CN402 (Page 55)
FRONT AMP BOARD CN401 (Page 55)
TRANS BOARD CN914 (Page 66)
VIDEO BOARD CN851 (Page 53)
(CHASSIS)
1-865-685-
13
(13)

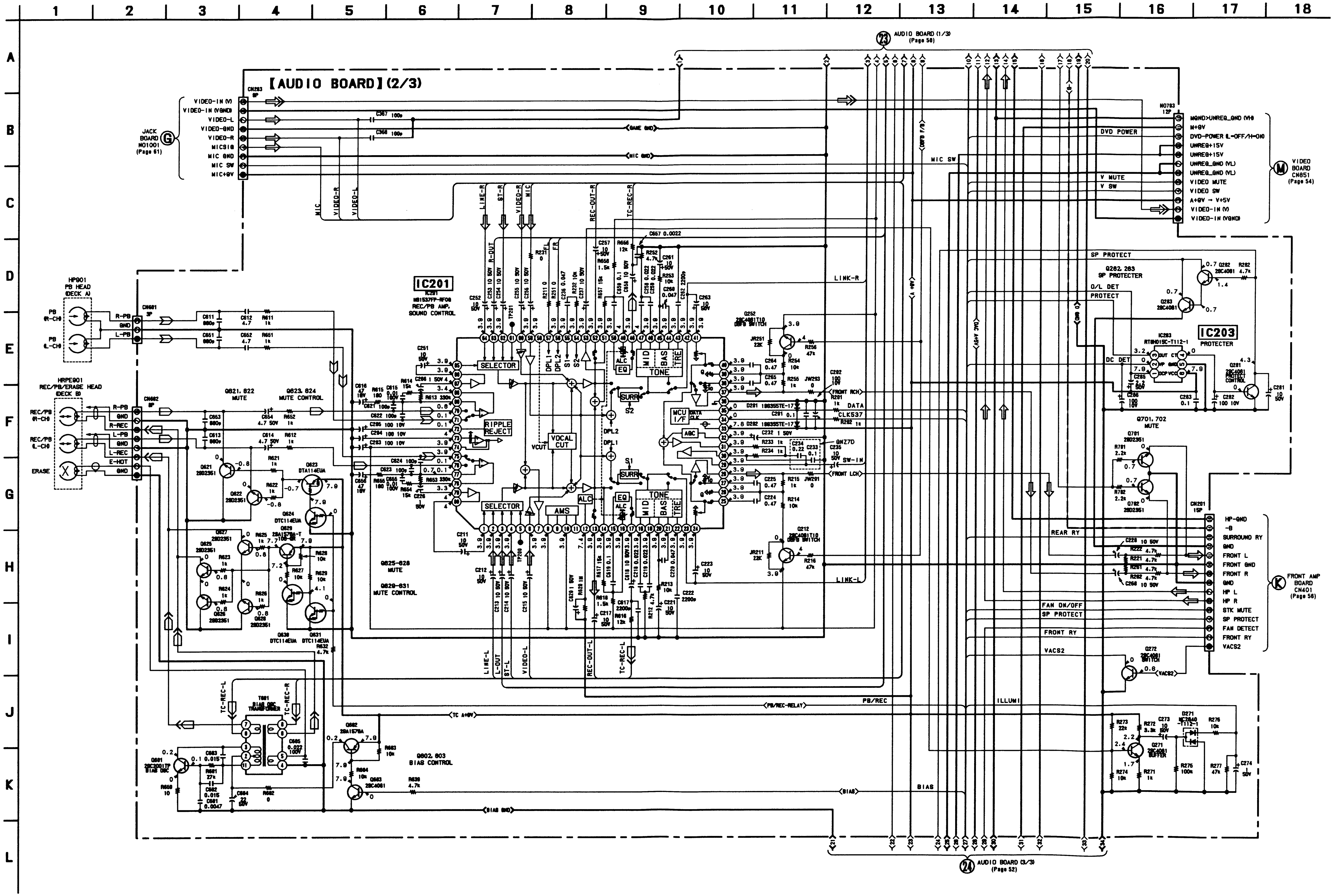
• **Semiconductor Location**

Ref. No.	Location	Ref. No.	Location
D201	D-5	Q623	H-5
D202	D-5	Q624	H-5
D235	F-11	Q625	G-4
D271	H-4	Q626	H-4
D301	C-10	Q627	G-4
D722	C-8	Q628	G-4
D725	C-7	Q629	H-5
D726	C-8	Q630	H-5
D727	C-7	Q631	H-5
D728	C-7	Q701	I-8
D751	G-10	Q702	I-9
D753	G-9	Q703	G-11
D761	G-9	Q704	F-12
D762	B-7	Q705	E-11
D763	G-8	Q706	E-11
D771	B-8	Q711	D-10
D781	I-9	Q712	C-10
D783	I-7	Q713	C-10
D791	I-11	Q714	C-9
D792	I-12	Q721	B-6
D793	I-12	Q722	B-6
		Q723	B-5
IC201	E-5	Q724	C-8
IC203	H-8	Q727	D-7
IC301	C-11	Q728	C-8
IC303	C-9	Q729	D-7
IC305	B-12	Q745	F-10
IC771	C-9	Q746	F-10
		Q771	C-8
Q212	D-6	Q772	C-8
Q252	C-5	Q782	I-7
Q271	H-5	Q783	I-7
Q272	H-3	Q784	I-7
Q281	H-8	Q791	I-12
Q282	H-8	Q792	I-11
Q283	H-8	Q793	I-12
Q601	G-5	Q794	H-12
Q602	G-6	Q795	I-12
Q603	G-5	Q796	G-12
Q621	G-4	Q797	H-12
Q622	G-4		

7-15. SCHEMATIC DIAGRAM — AUDIO SECTION (1/3) —


【AUDIO BOARD】(1/3)
IC305
DIGITAL OPTICAL TRANSMITTER
IC305 TOTX141
DIGITAL OUT (OPTICAL)
GNZ7D
*1 FB301 0 (GNZ7D:EXCEPT TH) FERRITE (GNZ7D:TH)
*2 CN301 17P (GNZ7D) 15P (GNZ8D/GNZ9D)
IC301
IC301 M61530FP-D60G SURROUND CONTROL
FL INPUT GAIN CONTROL
FR INPUT GAIN CONTROL
SL VOL
SR VOL
C VOL
LFE VOL
MICON I/F
BASS BOOST
AGC
GNZ8D/GNZ9D
JW416 JW415 GNZ7D
CLK530
DATA
IC303
SUB WOOFER AMP
Q714 SUB WOOFER MUTE
IC303(2/2) NJM4565M
IC303(1/2) NJM4565M
SW RY
O/L DET
DC DET
SP PROTECT
CN303 6P
SUB WOOFER
SW GND
SW RLAY
OVERLOAD DETECT
DC DETECT
SP PROTECT
SUBWOOFER BOARD NO718 (Page 65)
GNZ9D
SW IN
D762 1SS355TE-17
D728 1SS355TE-17
Q721 DTA114EUA
Q721-723 AC DETECT
Q722 DTC114EUA
Q723 2SC4081
GNZ7D/GNZ8D
J201 SUB WOOFER OUT
Q706 SUB WOOFER MUTE
Q745, 746 SUB WOOFER SWITCH
Q745 DTA114EUA
Q746 DTC114EUA
CN745 2P
SW SWITCH
GND
SURROUND AMP BOARD NO573 (Page 63)
GNZ8D
D722 1SS355TE-17
SW MUTE
Q724 DTA114EUA SUBWOOFER MUTE CONTROL
CN382 5P
REAR-R
REAR GND (PRE)
REAR-L
CEN GND (PRE)
CENTER
SURROUND AMP BOARD NO501 (Page 63)
GNZ8D/GNZ9D
Q712 2SD2351
Q711 2SD2351
Q713 2SD2351
Q711-713 SURROUND MUTE
GNZ7D
SR
SL
C
SW
SW-IN
D-GND
D-OUT
DOWNMIX-R
A-GND
DOWNMIX-L
SW (LFE)
CENTER
SURROUND-R
SURROUND-L
FRONT-R
FRONT-L
AUDIO 5V
AUDIO GND
CN301
DMB10 BOARD (1/4) CN302 (Page 45)
DM-R
DM-L
LFE-IN
C-IN
SR-IN
SL-IN
FR-IN
FL-IN
D771 10ED840-TB3
*3 R313, 353 0 (GNZ7D) 470 (GNZ8D/GNZ9D)
*4 R315, 355 0 (GNZ7D) 10k (GNZ8D/GNZ9D)
*5 C323, 363 0 (GNZ7D) 0.0022 (GNZ8D/GNZ9D)
*6 R382, 383 1k (GNZ8D) 6.8k (GNZ9D)
JW364 JW
C366 100p
GNZ8D/GNZ9D
Q705, 706 MUTE
REC-OUT-L
REC-OUT-R
LINE OUT MUTE
D725 1SS355TE-17
Q727 DTA114EUA LINE OUT MUTE CONTROL
LINEOUT MUTE
D726 1SS355TE-17
Q728 DTA114EUA PRE MUTE CONTROL
PRE MUTE
D727 1SS355TE-17
Q729 DTA114EUA HEADPHONE MUTE CONTROL
HP MUTE
LINE-L
LINE-R
J202 4P
OUT R
OUT L
IN
J202 TV/SAT
Q703, 704 HEADPHONE MUTE
Q703 2SD2351
Q704 2SD2351
D235 1SS355TE-17
CN755 4P
NO382B 4P
NO382A 4P
HP-L
HP-GND
HP-R
HP-SW
JACK BOARD NO1002 (Page 61)
HP SW
CN753 8P
CE
ST-DOUT/MC-DIN
CL
ST-DIN/MC-DOUT
LCH
9V
RCH
GND
TUNED
DO
DI
ST-L
ST-R
*7 R715, 717 0 (EXCEPT E2) 22k (E2)
E2 MODEL
FM 75Ω COAXIAL
ANTENNA
AM
TM901 FM/AM TUNER PACK (SUPPLIED WITH THE ASSEMBLED BLOCK)
AUDIO BOARD (2/3) (Page 51)

7-16. SCHEMATIC DIAGRAM — AUDIO SECTION (2/3) —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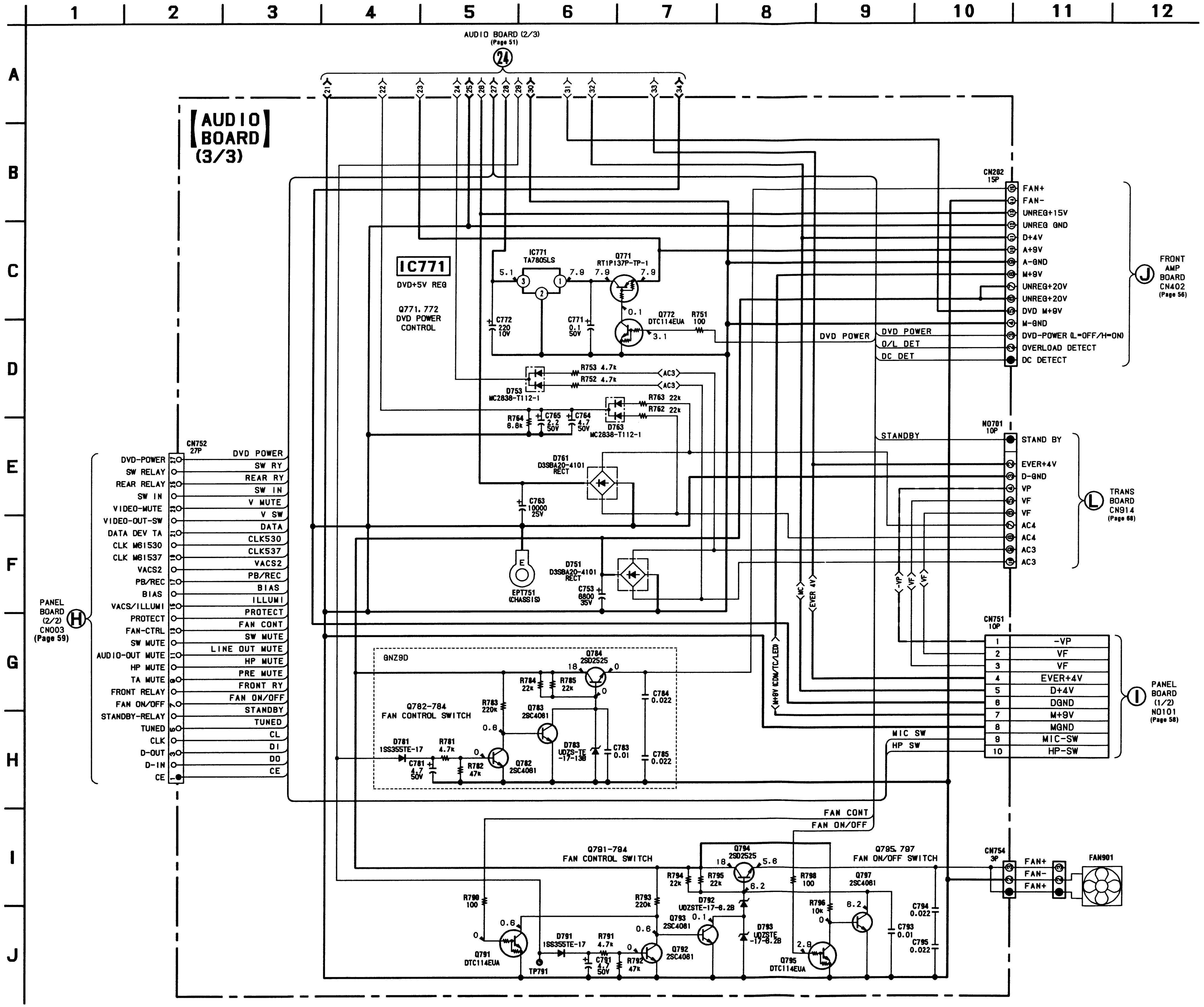
L
23 AUDIO BOARD (1/3) (Page 50)
[AUDIO BOARD] (2/3)
CN283 9P
VIDEO-IN (V)
VIDEO-IN (VGND)
VIDEO-L
VIDEO-GND
VIDEO-R
MICSIG
MIC GND
MIC SW
MIC+8V
JACK BOARD NO1001 (Page 61)
G
C367 100p
C368 100p
GAME GND
MIC GND
MIC SW
MIC
VIDEO-R
VIDEO-L
LINE-R
ST-R
VIDEO-R
R-OUT
REC-OUT-R
TC-REC-R
IC201
M61537FP-RF08
REC/PB AMP, SOUND CONTROL
SELECTOR
RIPPLE REJECT
VOCAL CUT
VCUT
DPL1
DPL2
S1
S2
SURR
ALC
EQ
MID
BAS
TRE
TONE
AMS
MCU I/F
DATA
CLK
ABC
LINK-R
LINK-L
Q252 2SC4081T10 DBFB SWITCH
Q212 2SC4081T10 DBFB SWITCH
FRONT RCH
FRONT LCH
D281 1SS355TE-17
D282 1SS355TE-17
CLK537
GNZ7D
SW-IN
HP901 PB HEAD (DECK A)
PB (R-CH)
PB (L-CH)
CN601 3P
R-PB
GND
L-PB
HRPE901 REC/PB/ERASE HEAD (DECK B)
REC/PB (R-CH)
REC/PB (L-CH)
ERASE
CN602 8P
R-PB
GND
R-REC
L-PB
GND
L-REC
E-HOT
GND
Q621, 622 MUTE
Q623, 624 MUTE CONTROL
Q621 2SD2351
Q622 2SD2351
Q623 DTA114EUA
Q624 DTC114EUA
Q625-628 MUTE
Q629-631 MUTE CONTROL
Q629 2SA1576A-T
Q630 DTC114EUA
Q631 DTC114EUA
T601 BIAS OSC TRANSFORMER
TC-REC-L
TC-REC-R
Q601 2SC2001TP BIAS OSC
Q602 2SA1576A
Q603 2SC4081
Q602, 603 BIAS CONTROL
TC A+9V
PB/REC-RELAY
PB/REC
BIAS
BIAS GND
ILLUMI
LINE-L
L-OUT
ST-L
VIDEO-L
REC-OUT-L
TC-REC-L
NO703 12P
MGND>UNREG_GND (VH)
M+8V
DVD-POWER (L-OFF/H-ON)
UNREG+15V
UNREG+15V
UNREG_GND (VL)
UNREG_GND (VL)
VIDEO MUTE
VIDEO SW
A+8V → V+5V
VIDEO-IN (V)
VIDEO-IN (VGND)
M VIDEO BOARD CN651 (Page 54)
DVD POWER
V MUTE
V SW
SP PROTECT
Q282, 283 SP PROTECTER
D/L DET
PROTECT
Q282 2SC4081
Q283 2SC4081
IC283 RT8H015C-T112-1
IC203 PROTECTER
Q281 2SC4081 PROTECT CONTROL
DC DET
Q701, 702 MUTE
Q701 2SD2351
Q702 2SD2351
CN201 15P
HP-GND
-B
SURROUND RY
GND
FRONT L
FRONT GND
FRONT R
GND
HP L
HP R
STK MUTE
SP PROTECT
FAN DETECT
FRONT RY
VACS2
K FRONT AMP BOARD CN401 (Page 56)
REAR RY
FAN ON/OFF
SP PROTECT
FRONT RY
VACS2
Q272 2SC4081 SWITCH
Q271 2SC4081 BUFFER
D271 MC2840 -T112-1
24 AUDIO BOARD (3/3) (Page 52)

7-17. SCHEMATIC DIAGRAM — AUDIO SECTION (3/3) —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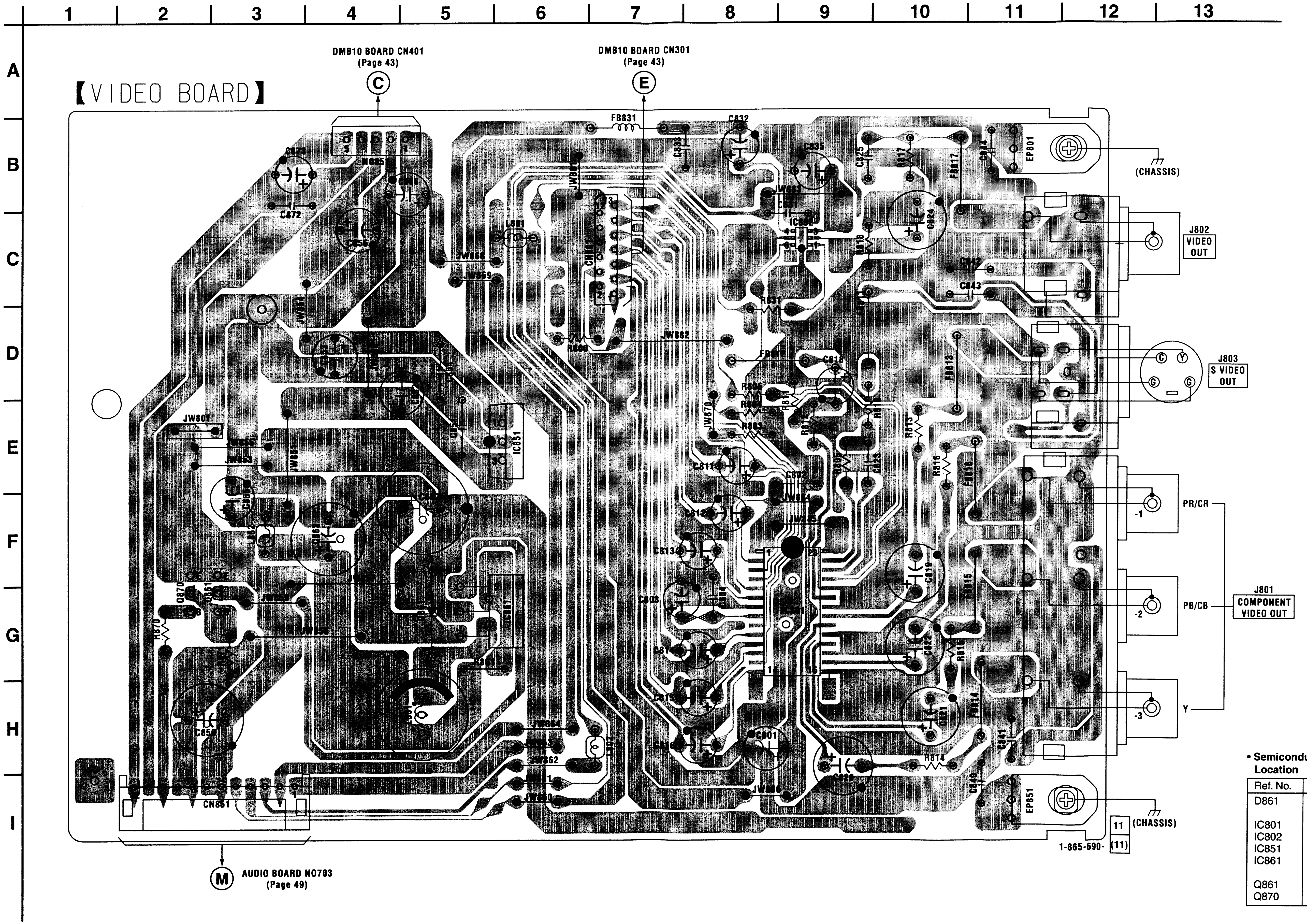
AUDIO BOARD (2/3) (Page 51)
㉔
AUDIO BOARD (3/3)
IC771
DVD+5V REG
Q771, 772 DVD POWER CONTROL
IC771 TA7805LS
Q771 RT1P137P-TP-1
Q772 DTC114EUA
R751 100
C772 220 10V
C771 0.1 50V
5.1
7.9
7.9
7.9
0.1
3.1
R753 4.7k
R752 4.7k
AC3
D753 MC2838-T112-1
R763 22k
R762 22k
R764 6.8k
C765 2.2 50V
C764 4.7 50V
D763 MC2838-T112-1
D761 D3SBA20-4101 RECT
C763 10000 25V
D751 D3SBA20-4101 RECT
C753 6800 35V
EP751 (CHASSIS)
E
CN752 27P
DVD-POWER
SW RELAY
REAR RELAY
SW IN
VIDEO-MUTE
VIDEO-OUT-SW
DATA DEV TA
CLK M61530
CLK M61537
VACS2
PB/REC
BIAS
VACS/ILLUMI
PROTECT
FAN-CTRL
SW MUTE
AUDIO-OUT MUTE
HP MUTE
TA MUTE
FRONT RELAY
FAN ON/OFF
STANDBY-RELAY
TUNED
CLK
D-OUT
D-IN
CE
DVD POWER
SW RY
REAR RY
SW IN
V MUTE
V SW
DATA
CLK530
CLK537
VACS2
PB/REC
BIAS
ILLUMI
PROTECT
FAN CONT
SW MUTE
LINE OUT MUTE
HP MUTE
PRE MUTE
FRONT RY
FAN ON/OFF
STANDBY
TUNED
CL
DI
DO
CE
PANEL BOARD (2/2) CN003 (Page 59)
Ⓗ
GNZ9D
Q782-784 FAN CONTROL SWITCH
Q784 2SD2525
R784 22k
R785 22k
R783 220k
Q783 2SC4081
C784 0.022
D781 1SS355TE-17
R781 4.7k
C781 4.7 50V
R782 47k
Q782 2SC4081
D783 UDZS-TE-17-13B
C783 0.01
C785 0.022
18
0
0
0.6
0
CN202 15P
FAN+
FAN-
UNREG+15V
UNREG GND
D+4V
A+9V
A-GND
M+9V
UNREG+20V
UNREG+20V
DVD M+9V
M-GND
DVD-POWER (L=OFF/H=ON)
OVERLOAD DETECT
DC DETECT
FRONT AMP BOARD CN402 (Page 56)
Ⓙ
DVD POWER
DVD POWER
O/L DET
DC DET
STANDBY
NO701 10P
STAND BY
EVER+4V
D-GND
VP
VF
VF
AC4
AC4
AC3
AC3
TRANS BOARD CN914 (Page 68)
Ⓛ
MIC
EVER 4V
-VP
VF
VF
M+9V (CDM/TC/LED)
CN751 10P
1 -VP
2 VF
3 VF
4 EVER+4V
5 D+4V
6 DGND
7 M+9V
8 MGND
9 MIC-SW
10 HP-SW
MIC SW
HP SW
PANEL BOARD (1/2) NO101 (Page 58)
Ⓘ
FAN CONT
FAN ON/OFF
Q791-794 FAN CONTROL SWITCH
Q794 2SD2525
R794 22k
R795 22k
R793 220k
D792 UDZSTE-17-6.2B
Q793 2SC4081
D793 UDZSTE-17-6.2B
R790 100
Q791 DTC114EUA
TP791
D791 1SS355TE-17
R791 4.7k
C791 4.7 50V
R792 47k
Q792 2SC4081
Q795, 797 FAN ON/OFF SWITCH
R798 100
Q797 2SC4081
R796 10k
Q795 DTC114EUA
C794 0.022
C793 0.01
C795 0.022
18
5.6
6.2
0.1
0.6
0.6
0
8.2
0
2.6
CN754 3P
FAN+
FAN-
FAN+
FAN901

7-18. PRINTED WIRING BOARD — VIDEO SECTION —

• Refer to page 40 for Circuit Boards Location.

LF : Uses unleaded solder.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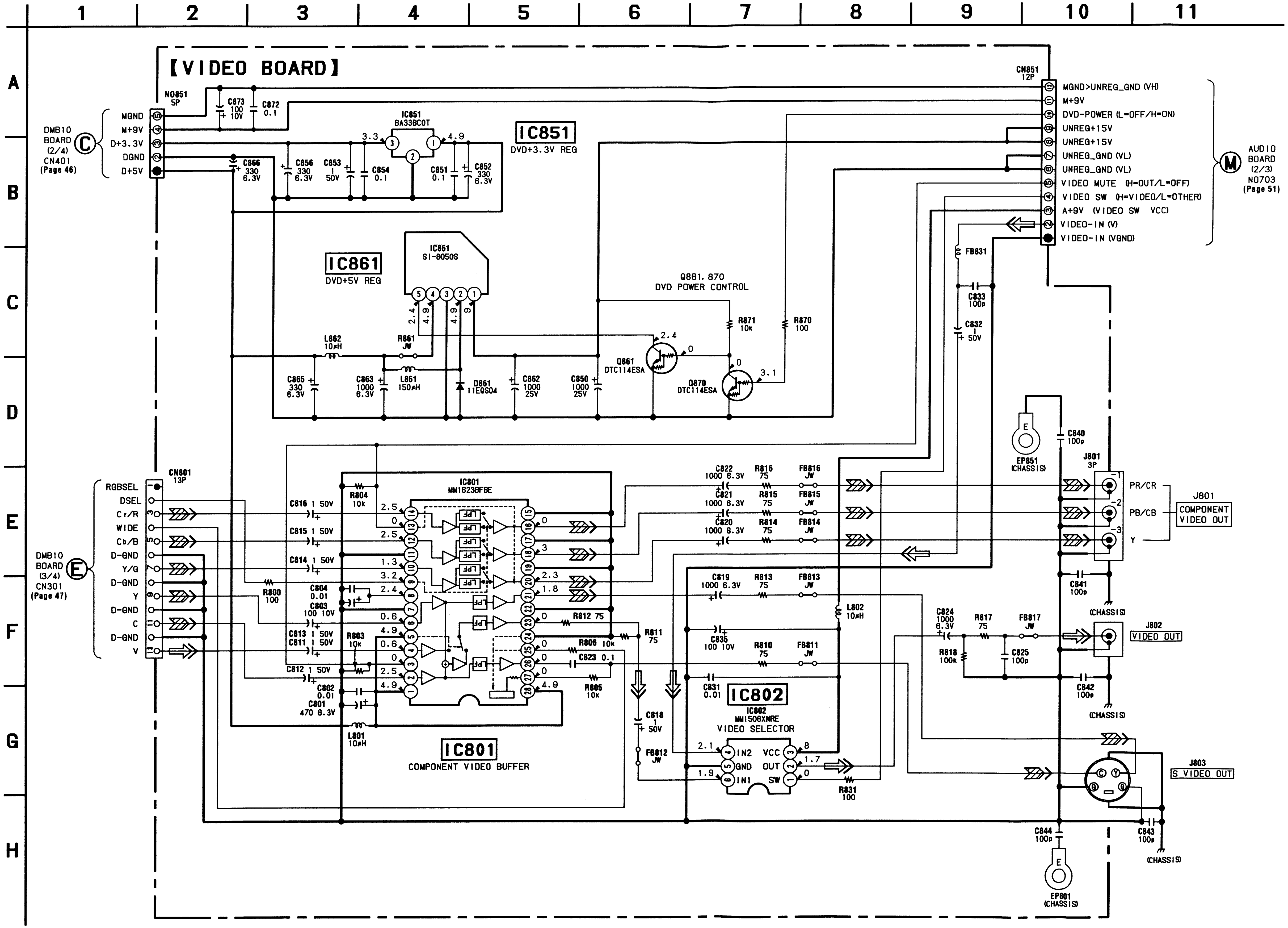
I
【VIDEO BOARD】
DMB10 BOARD CN401 (Page 43)
C
DMB10 BOARD CN301 (Page 43)
E
FB831
C832
C833
C835
C825
R817
FB817
C844
EP801
(CHASSIS)
C873
C872
C856
C858
JW863
C831
IC802
C824
J802 VIDEO OUT
L861
JW858
JW859
CN101
C842
C843
R831
JW854
JW862
R808
FB812
C815
R806
R804
R803
R811
R812
FB813
J803 S VIDEO OUT
C
Y
G
IC851
JW801
JW855
JW853
JW851
C851
C811
C802
JW864
JW865
R813
R816
FB816
C812
C813
C803
C804
IC801
C819
FB815
PR/CR
-1
PB/CB
-2
Y
-3
J801 COMPONENT VIDEO OUT
Q870
Q861
R870
JW850
JW852
IC861
R861
D861
C814
C822
R819
C816
C821
FB814
C859
JW864
JW863
JW862
JW861
JW860
L802
C801
C826
R814
C841
C840
JW866
EP851
CN851
11
(CHASSIS)
1-865-690-
(11)
AUDIO BOARD NO703 (Page 49)
M

• Semiconductor Location

Ref. No.	Location
D861	G-5
IC801	G-9
IC802	C-9
IC851	E-6
IC861	G-6
Q861	G-3
Q870	G-2

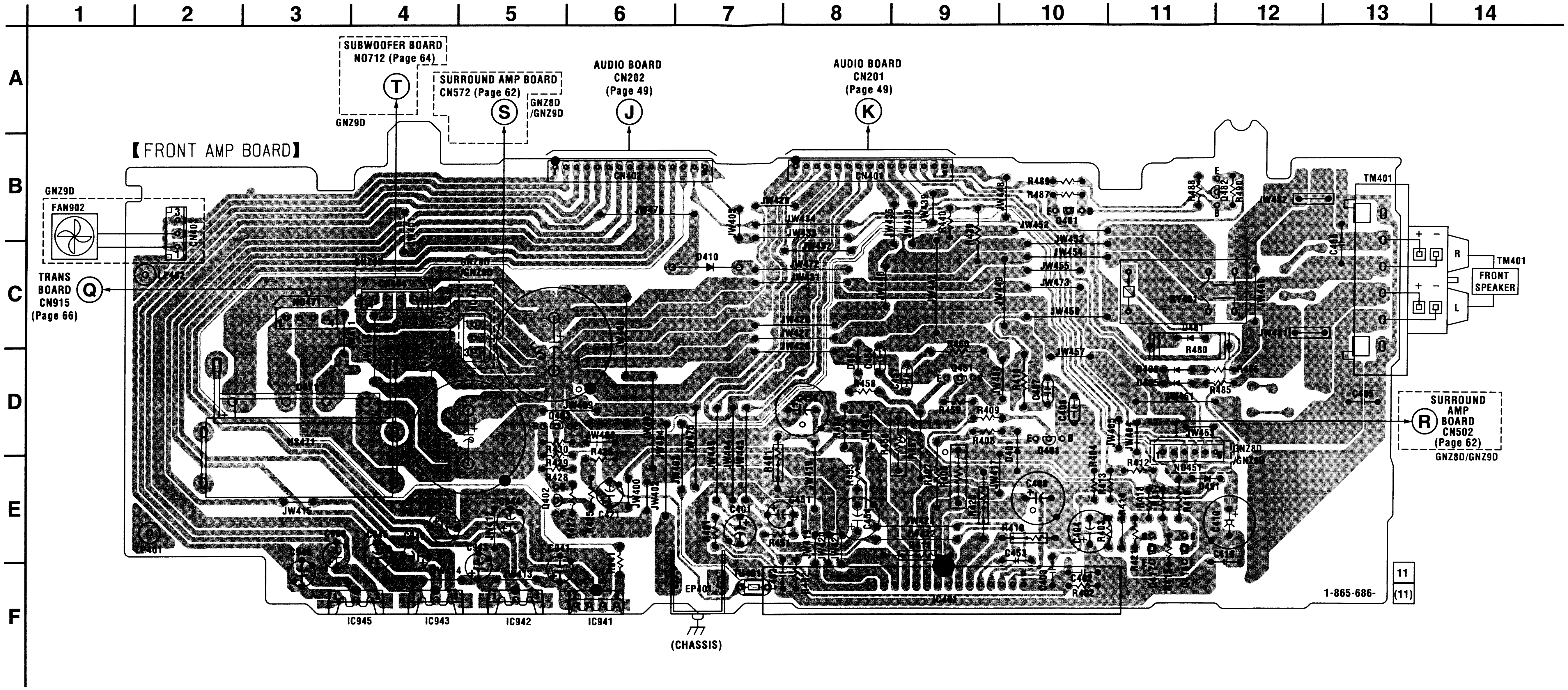
7-19. SCHEMATIC DIAGRAM — VIDEO SECTION —


1 2 3 4 5 6 7 8 9 10 11
A B C D E F G H
【VIDEO BOARD】
N0851 5P
MGND
M+9V
D+3.3V
DGND
D+5V
DMB10 BOARD (2/4) CN401 (Page 46)
C873 100 10V
C872 0.1
IC851 BA33BC0T
IC851 DVD+3.3V REG
C866 330 6.3V
C856 330 6.3V
C853 1 50V
C854 0.1
C851 0.1
C852 330 6.3V
IC861 SI-8050S
IC861 DVD+5V REG
L862 10µH
R861 JW
C865 330 6.3V
C863 1000 6.3V
L861 150µH
D861 11EQS04
C862 1000 25V
C850 1000 25V
Q861, 870 DVD POWER CONTROL
Q861 DTC114ESA
Q870 DTC114ESA
R871 10k
R870 100
CN851 12P
MGND>UNREG_GND (VH)
M+9V
DVD-POWER (L=OFF/H=ON)
UNREG+15V
UNREG+15V
UNREG_GND (VL)
UNREG_GND (VL)
VIDEO MUTE (H=OUT/L=OFF)
VIDEO SW (H=VIDEO/L=OTHER)
A+9V (VIDEO SW VCC)
VIDEO-IN (V)
VIDEO-IN (VGND)
AUDIO BOARD (2/3) N0703 (Page 51)
FB831
C833 100p
C832 1 50V
EP851 (CHASSIS)
C840 100p
J801 3P
PR/CR
PB/CB
Y
J801 COMPONENT VIDEO OUT
CN801 13P
RGBSEL
DSEL
Cr/R
WIDE
Cb/B
D-GND
Y/G
D-GND
Y
D-GND
C
D-GND
V
DMB10 BOARD (3/4) CN301 (Page 47)
IC801 MM1623BFBE
R804 10k
C816 1 50V
C815 1 50V
C814 1 50V
R800 100
C804 0.01
C803 100 10V
C813 1 50V
C811 1 50V
R803 10k
C812 1 50V
C802 0.01
C801 470 6.3V
L801 10µH
IC801 COMPONENT VIDEO BUFFER
LPF
R812 75
R806 10k
C823 0.1
R805 10k
R811 75
C822 1000 6.3V
R816 75
FB816 JW
C821 1000 6.3V
R815 75
FB815 JW
C820 1000 6.3V
R814 75
FB814 JW
C819 1000 6.3V
R813 75
FB813 JW
L802 10µH
C835 100 10V
R810 75
FB811 JW
C831 0.01
IC802
IC802 MM1506XNRE VIDEO SELECTOR
IN2 VCC
GND OUT
IN1 SW
R831 100
C818 1 50V
FB812 JW
C824 1000 6.3V
R817 75
FB817 JW
R818 100k
C825 100p
J802 VIDEO OUT
C841 100p
C842 100p
(CHASSIS)
J803 S VIDEO OUT
C844 100p
C843 100p
EP801 (CHASSIS)

7-20. PRINTED WIRING BOARD — FRONT AMP SECTION —

• Refer to page 40 for Circuit Boards Location.

: Uses unleaded solder.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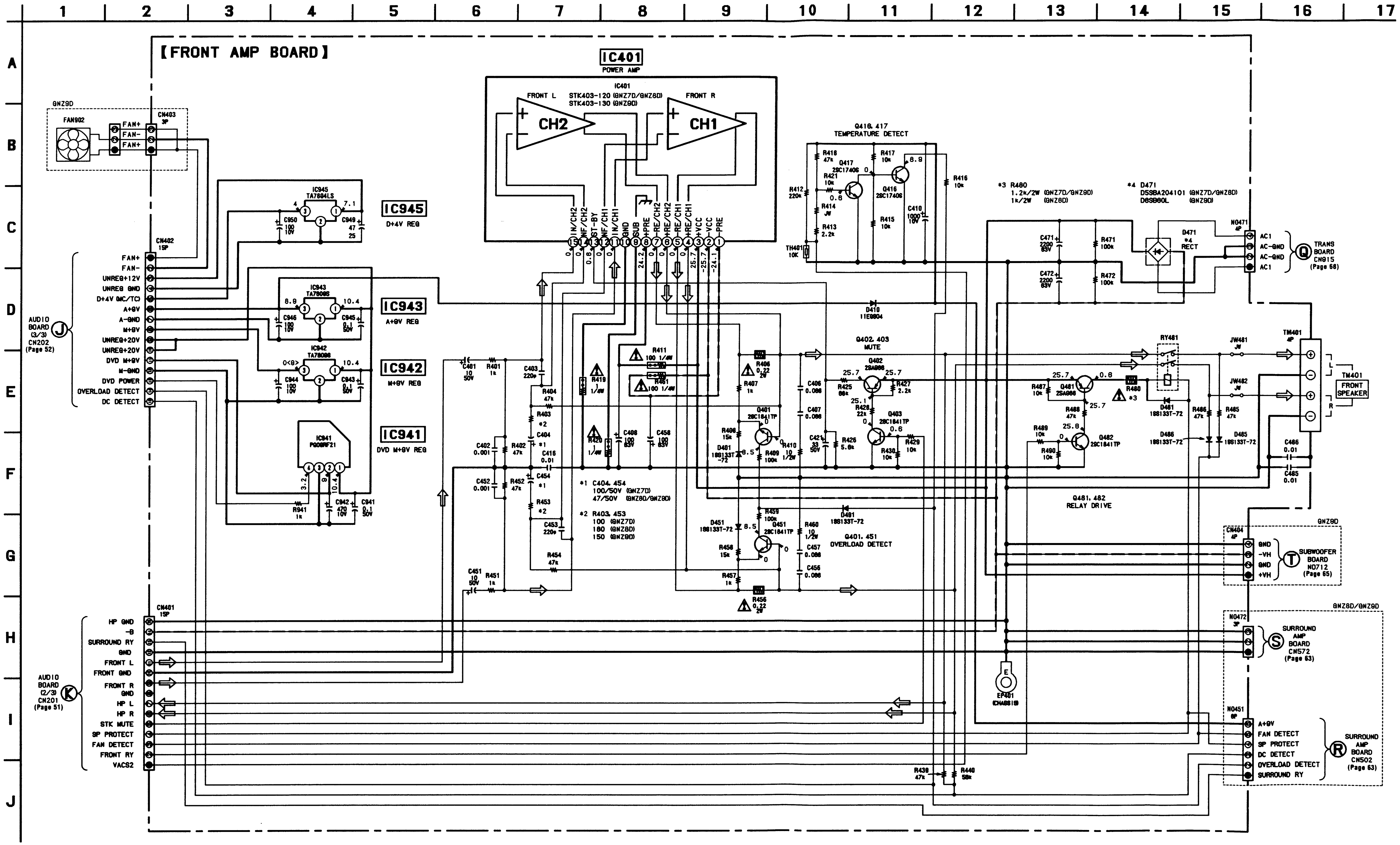
F
SUBWOOFER BOARD
NO712 (Page 64)
GNZ9D
T
SURROUND AMP BOARD
CN572 (Page 62)
GNZ8D
/GNZ9D
S
AUDIO BOARD
CN202
(Page 49)
J
AUDIO BOARD
CN201
(Page 49)
K
【FRONT AMP BOARD】
GNZ9D
FAN902
CN403
TRANS
BOARD
CN915
(Page 66)
Q
CN402
CN401
D410
TM401
FRONT
SPEAKER
R
L
RY481
R480
D481
D485
D486
Q481
Q482
R488
R487
R485
R489
SURROUND
AMP
BOARD
CN502
(Page 62)
GNZ8D/GNZ9D
R
Q401
Q402
Q403
Q451
D401
D451
D471
D491
Q416
Q417
C401
C403
C404
C409
C410
C451
C452
C453
C454
R401
R403
R404
R405
R409
R410
R412
R413
R416
R428
R429
R430
R451
R458
R482
R484
R486
EP401
EP402
EP403
IC401
IC941
IC942
IC943
IC945
(CHASSIS)
1-865-686-
11
(11)

- Semiconductor Location

Ref. No.	Location	Ref. No.	Location
D401	D-10	IC943	F-4
D410	C-7	IC945	F-4
D451	D-8		
D471	D-3	Q401	D-10
D481	C-11	Q402	E-5
D485	D-11	Q403	D-5
D486	D-11	Q416	E-11
D491	E-11	Q417	E-11
		Q451	D-9
IC401	F-9	Q481	B-10
IC941	F-6	Q482	B-12
IC942	F-5		

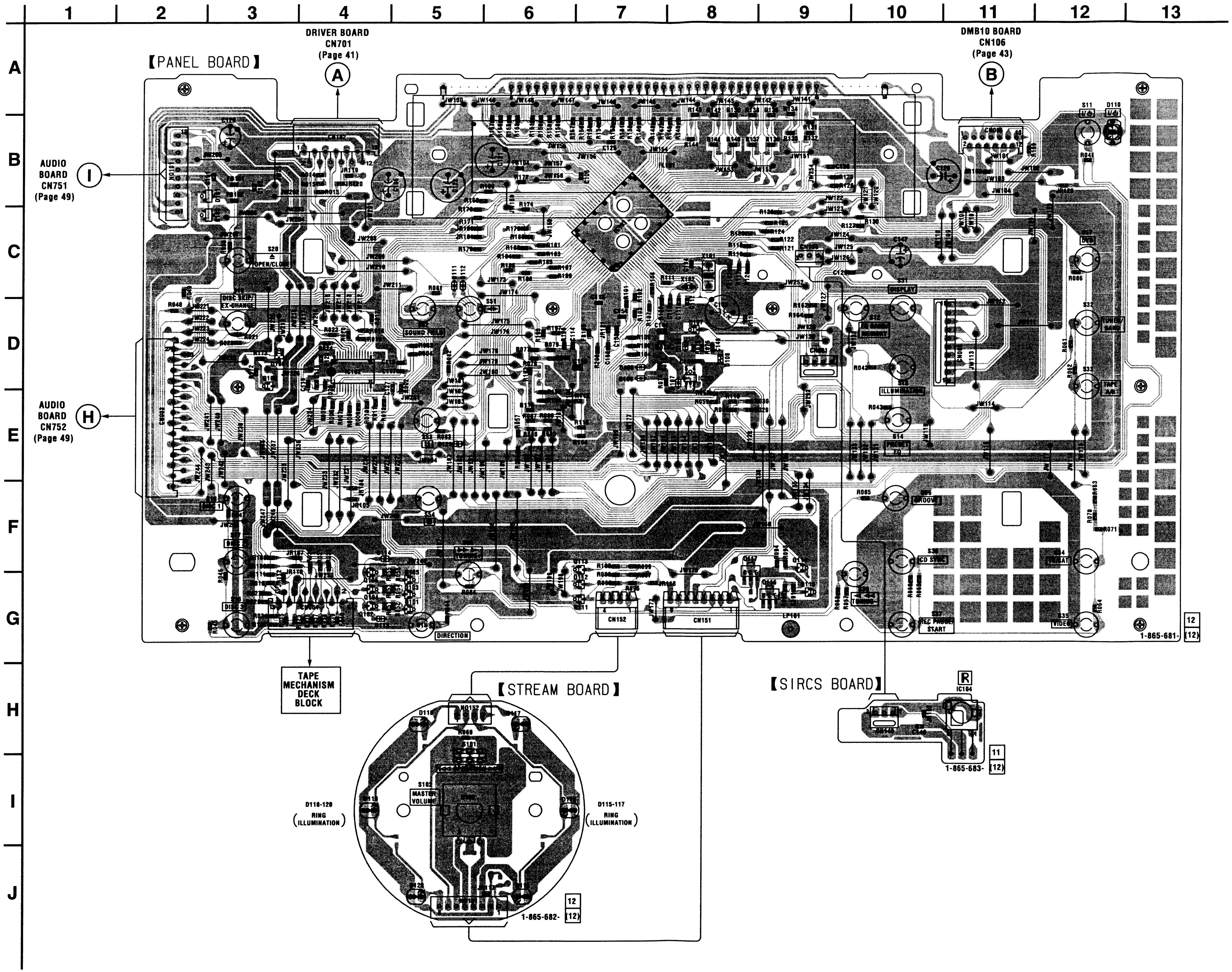
7-21. SCHEMATIC DIAGRAM — FRONT AMP SECTION —


[FRONT AMP BOARD]
IC401 POWER AMP
IC401 STK403-120 (GNZ7D/GNZ8D) STK403-130 (GNZ9D)
FRONT L
FRONT R
CH2
CH1
IN/CH2
NF/CH2
ST-BY
NF/CH1
IN/CH1
GND
SUB
-PRE
-RE/CH2
+RE/CH2
-RE/CH1
+RE/CH1
+VCC
-VCC
+PRE
GNZ9D
FAN902
FAN+
FAN-
CN403 3P
CN402 15P
UNREG+12V
UNREG GND
D+4V (MC/TC)
A+8V
A-GND
M+8V
UNREG+20V
DVD M+8V
M-GND
DVD POWER
OVERLOAD DETECT
DC DETECT
AUDIO BOARD (3/3) CN202 (Page 52)
IC945 TA7804LS
IC945 D+4V REG
IC943 TA7808S
IC943 A+8V REG
IC942 TA7808S
IC942 M+8V REG
IC941 PQ09RF21
IC941 DVD M+8V REG
Q416, 417 TEMPERATURE DETECT
Q417 2SC1740S
Q416 2SC1740S
TH401 10K
D410 11ES04
Q402, 403 MUTE
Q402 2SA608
Q403 2SC1841TP
Q401 2SC1841TP
Q481 2SA608
Q482 2SC1841TP
Q481, 482 RELAY DRIVE
Q451 2SC1841TP
Q401, 451 OVERLOAD DETECT
D481 1SS133T-72
D485 1SS133T-72
D486 1SS133T-72
D491 1SS133T-72
D451 1SS133T-72
D401 1SS133T-72
*1 C404, 454 100/50V (GNZ7D) 47/50V (GNZ8D/GNZ9D)
*2 R403, 453 100 (GNZ7D) 180 (GNZ8D) 150 (GNZ9D)
*3 R480 1.2k/2W (GNZ7D/GNZ9D) 1k/2W (GNZ8D)
*4 D471 D5SBA20401 (GNZ7D/GNZ8D) D6SB60L (GNZ9D)
D471 *4 RECT
NO471 4P
AC1
AC-GND
TRANS BOARD CN915 (Page 58)
RY481
JW481
JW482
TM401 4P
TM401 FRONT SPEAKER
CN484 4P
GND
-VH
+VH
SUBWOOFER BOARD NO712 (Page 65)
GNZ8D/GNZ9D
NO472 3P
SURROUND AMP BOARD CN572 (Page 63)
EP401 CHASSIS
NO451 6P
A+8V
FAN DETECT
SP PROTECT
DC DETECT
OVERLOAD DETECT
SURROUND RY
SURROUND AMP BOARD CN502 (Page 63)
CN401 15P
HP GND
-B
SURROUND RY
GND
FRONT L
FRONT GND
FRONT R
HP L
HP R
STK MUTE
SP PROTECT
FAN DETECT
FRONT RY
VACS2
AUDIO BOARD (2/3) CN201 (Page 51)

7-22. PRINTED WIRING BOARDS — PANEL SECTION —

• Refer to page 40 for Circuit Boards Location.

Ⓛ : Uses unleaded solder.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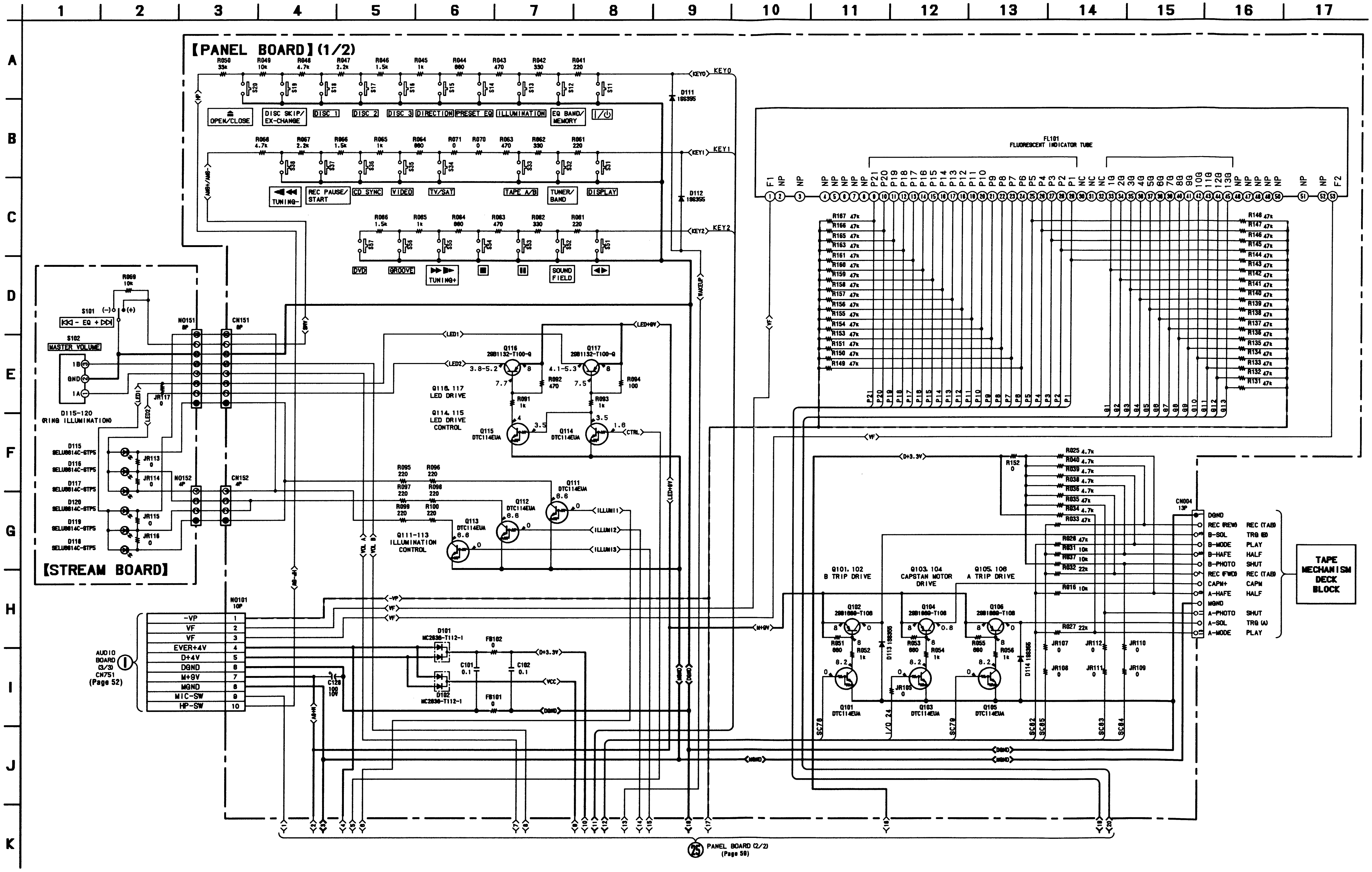
【PANEL BOARD】
DRIVER BOARD CN701 (Page 41)
A
DMB10 BOARD CN106 (Page 43)
B
AUDIO BOARD CN751 (Page 49)
I
AUDIO BOARD CN752 (Page 49)
H
OPEN/CLOSE
DISC SKIP/EX-CHANGE
SOUND FIELD
DISPLAY
ILLUMINATION
GROOVE
CD SYNC
REC PAUSE/START
VIDEO
DIRECTION
CN152
CN151
LP101
1-865-681-
12
(12)
TAPE MECHANISM DECK BLOCK
【STREAM BOARD】
D118-120 (RING ILLUMINATION)
D115-117 (RING ILLUMINATION)
MASTER VOLUME
1-865-682-
12
(12)
【SIRCS BOARD】
R
IC104
1-865-683-
11
(12)

• **Semiconductor Location**

Ref. No.	Location
D101	B-3
D102	C-3
D105	D-7
D106	D-7
D107	D-8
D109	D-8
D110	B-12
D111	C-5
D112	C-5
D113	G-4
D114	F-4
D115	J-6
D116	I-6
D117	H-6
D118	H-5
D119	I-4
D120	J-5
D121	E-5
IC101	C-7
IC102	D-4
IC103	D-8
IC104	H-11
Q101	G-5
Q102	G-4
Q103	G-5
Q104	G-4
Q105	G-5
Q106	G-4
Q107	D-8
Q108	D-3
Q109	D-3
Q111	G-7
Q112	G-7
Q113	F-7
Q114	F-9
Q115	G-9
Q116	G-9
Q117	F-8

7-23. SCHEMATIC DIAGRAM — PANEL SECTION (1/2) —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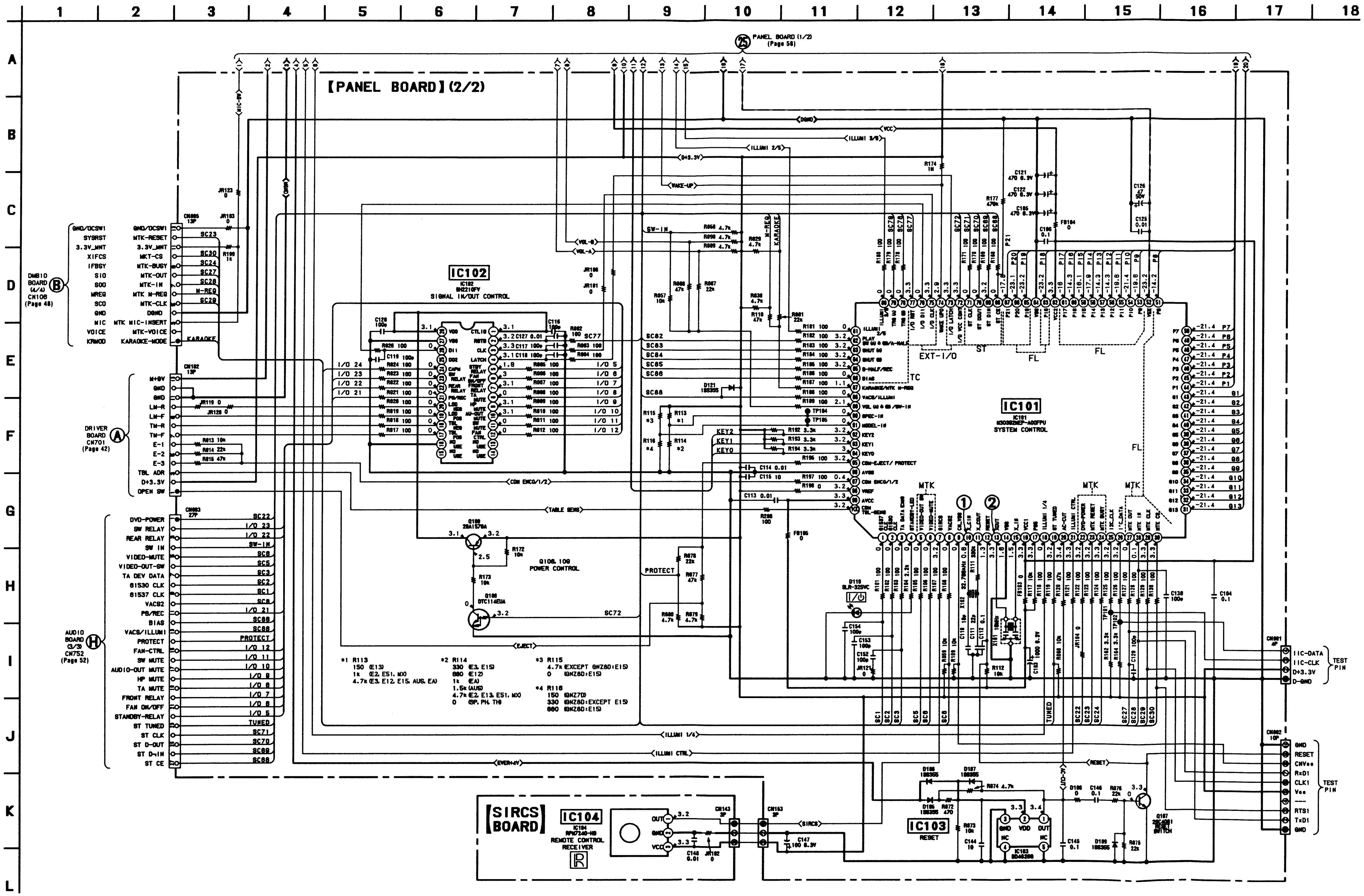
J
K
【PANEL BOARD】(1/2)
OPEN/CLOSE
DISC SKIP/ EX-CHANGE
DISC 1
DISC 2
DISC 3
DIRECTION
PRESET EQ
ILLUMINATION
EQ BAND/ MEMORY
I/⏻
TUNING-
REC PAUSE/ START
CD SYNC
VIDEO
TV/SAT
TAPE A/B
TUNER/ BAND
DISPLAY
DVD
GROOVE
TUNING+
SOUND FIELD
KEY0
KEY1
KEY2
D111 1SS355
D112 1SS355
FL101 FLUORESCENT INDICATOR TUBE
S101
EQ
S102 MASTER VOLUME
R069 10k
NO151 8P
CN151 8P
NO152 4P
CN152 4P
D115-120 (RING ILLUMINATION)
D115 SELU6614C-6TP5
D116 SELU6614C-6TP5
D117 SELU6614C-6TP5
D120 SELU6614C-6TP5
D119 SELU6614C-6TP5
D118 SELU6614C-6TP5
【STREAM BOARD】
Q116 2SB1132-T100-Q
Q117 2SB1132-T100-Q
Q116, 117 LED DRIVE
Q114, 115 LED DRIVE CONTROL
Q115 DTC114EUA
Q114 DTC114EUA
Q111 DTC114EUA
Q112 DTC114EUA
Q113 DTC114EUA
Q111-113 ILLUMINATION CONTROL
ILLUMI1
ILLUMI2
ILLUMI3
NO101 10P
-VP
VF
VF
EVER+4V
D+4V
DGND
M+9V
MGND
MIC-SW
HP-SW
AUDIO BOARD (3/3) CN751 (Page 52)
D101 MC2838-T112-1
D102 MC2838-T112-1
FB102 0
FB101 0
C101 0.1
C102 0.1
C128 100 10V
Q101, 102 B TRIP DRIVE
Q103, 104 CAPSTAN MOTOR DRIVE
Q105, 106 A TRIP DRIVE
Q102 2SB1689-T108
Q104 2SB1689-T108
Q106 2SB1689-T108
Q101 DTC114EUA
Q103 DTC114EUA
Q105 DTC114EUA
D113 1SS355
D114 1SS355
CN004 13P
DGND
REC (REW)
B-SOL
B-MODE
B-HAFE
B-PHOTO
REC (FWD)
CAPM+
A-HAFE
MGND
A-PHOTO
A-SOL
A-MODE
REC (TAB)
TRG (B)
PLAY
HALF
SHUT
CAPM
TRG (A)
TAPE MECHANISM DECK BLOCK
PANEL BOARD (2/2) (Page 59)
㉕

7-24. SCHEMATIC DIAGRAM — PANEL SECTION (2/2) —

• See page 69 for waveforms.

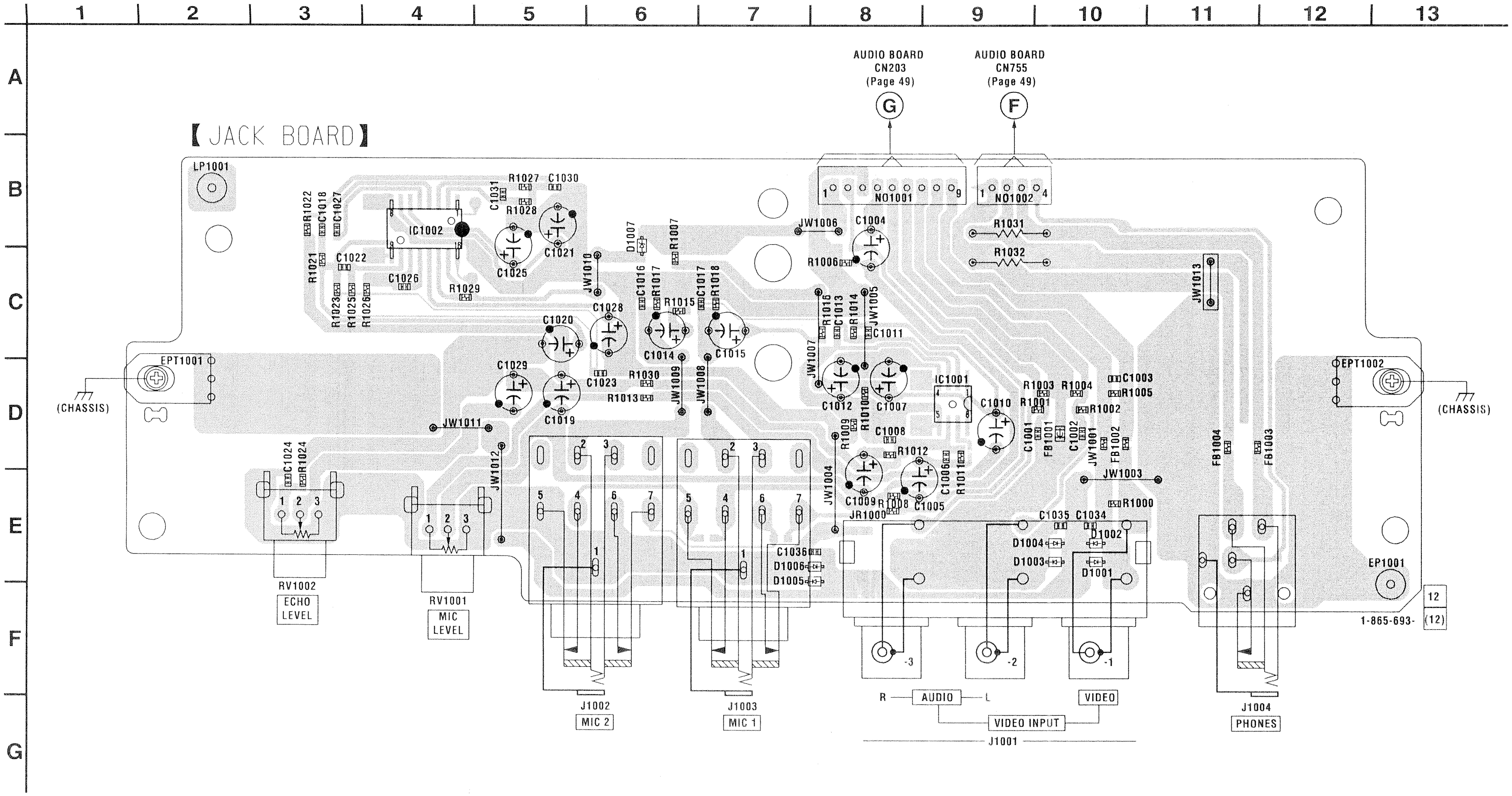
• See page 28, 29 for IC Pin Function Description.


1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18
A B C D E F G H I J K L
PANEL BOARD (1/2) (Page 56)
[PANEL BOARD] (2/2)
IC102
IC102 BH2210FV
SIGNAL IN/OUT CONTROL
IC101
IC101 M30302MEP-A00FPU
SYSTEM CONTROL
Q108, 109 POWER CONTROL
DMB10 BOARD (4/4) CN108 (Page 48)
GND/OCSW1
SYSRST
3.3V_MNT
XIFCS
IFBSY
SIO
SOO
MREQ
SCO
GND
MIC
VOICE
KRMOD
CN805 13P
GND/OCSW1
MTK-RESET
3.3V_MNT
MKT-CS
MTK-BUSY
MTK-OUT
MTK-IN
MTK M-REQ
MTK-CLK
DGND
MTK MIC-INSERT
MTK-VOICE
KARAOKE-MODE
DRIVER BOARD CN701 (Page 42)
CN802 13P
M+9V
GND
GND
LM-R
LM-F
TM-R
TM-F
E-1
E-2
E-3
TBL ADR
D+3.3V
OPEN SW
AUDIO BOARD (3/3) CN752 (Page 52)
CN803 27P
DVD-POWER
SW RELAY
REAR RELAY
SW IN
VIDEO-MUTE
VIDEO-OUT-SW
TA DEV DATA
61530 CLK
61537 CLK
VACS2
PB/REC
BIAS
VACS/ILLUMI
PROTECT
FAN-CTRL
SW MUTE
AUDIO-OUT MUTE
HP MUTE
TA MUTE
FRONT RELAY
FAN ON/OFF
STANDBY-RELAY
ST TUNED
ST CLK
ST D-OUT
ST D-IN
ST CE
EXT-I/O
ST
FL
TC
MTK
CN801 4P
IIC-DATA
IIC-CLK
D+3.3V
D-GND
TEST PIN
CN802 10P
GND
RESET
CNVss
RxD1
CLK1
Vss
RTS1
TxD1
GND
TEST PIN
[SIRCS BOARD]
IC104
IC104 RPM7240-H8
REMOTE CONTROL RECEIVER
CN143 3P
CN153 3P
IC103
RESET
IC103 BD46280
Q107 2SC4081 RESET SWITCH
*1 R113
150 (E13)
1k (E2, E51, MX)
4.7k (E3, E12, E15, AUS, EA)
*2 R114
330 (E3, E15)
680 (E12)
1k (EA)
1.5k (AUS)
4.7k (E2, E13, E51, MX)
0 (SP, PH, TH)
*3 R115
4.7k EXCEPT GNZ8D:E15)
0 (GNZ8D:E15)
*4 R118
150 (GNZ7D)
330 (GNZ8D:EXCEPT E15)
680 (GNZ8D:E15)

7-25. PRINTED WIRING BOARD — JACK SECTION —

• Refer to page 40 for Circuit Boards Location.

LF : Uses unleaded solder.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A
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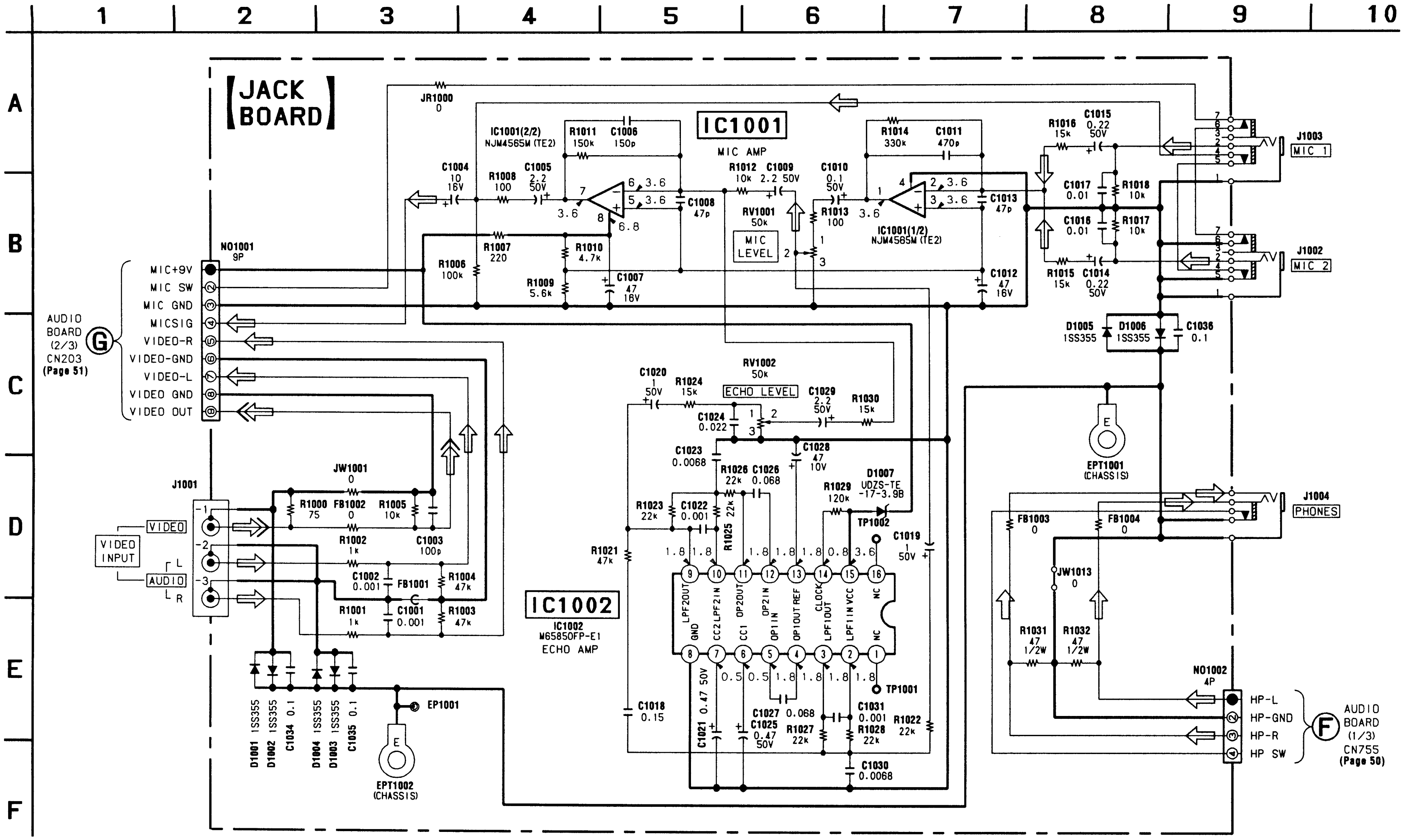
C
D
E
F
G
AUDIO BOARD
CN203
(Page 49)
G
AUDIO BOARD
CN755
(Page 49)
F
【JACK BOARD】
LP1001
NO1001
NO1002
IC1002
IC1001
R1027
C1030
C1031
R1028
C1021
C1025
R1022
C1018
C1027
R1021
C1022
C1026
R1029
R1023
R1025
R1026
D1007
R1007
JW1010
C1016
R1017
R1015
C1017
R1018
C1028
C1020
C1014
C1015
C1029
C1023
R1030
R1013
C1019
JW1009
JW1008
JW1011
JW1012
JW1006
C1004
R1006
R1016
C1013
R1014
JW1005
C1011
JW1007
C1012
C1007
R1010
R1009
C1008
R1012
JW1004
C1009
R1008
JR1000
C1005
C1006
R1011
R1031
R1032
JW1013
R1003
R1004
C1003
R1005
C1010
R1001
R1002
C1001
FB1001
C1002
JW1001
FB1002
JW1003
R1000
FB1004
FB1003
C1035
C1034
D1004
D1002
D1003
D1001
C1036
D1006
D1005
EPT1001
EPT1002
(CHASSIS)
(CHASSIS)
EP1001
C1024
R1024
RV1002
ECHO LEVEL
RV1001
MIC LEVEL
J1002
MIC 2
J1003
MIC 1
R
AUDIO
L
VIDEO
VIDEO INPUT
J1001
-3
-2
-1
J1004
PHONES
12
(12)
1-865-693-

• Semiconductor Location

Ref. No.	Location
D1001	E-10
D1002	E-10
D1003	E-10
D1004	E-10
D1005	E-7
D1006	E-7
D1007	B-6
IC1001	D-9
IC1002	B-4

7-26. SCHEMATIC DIAGRAM — JACK SECTION —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A
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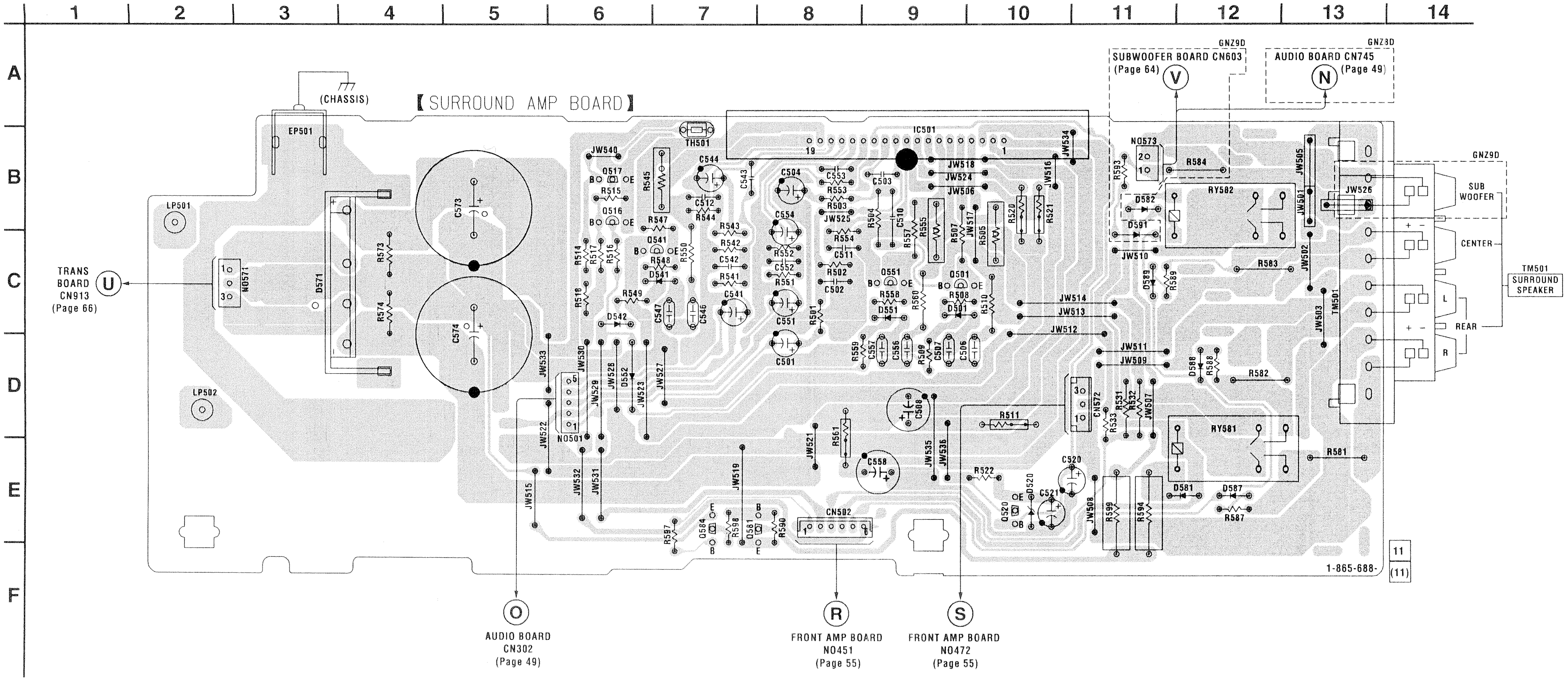
C
D
E
F
JACK BOARD
JR1000 0
IC1001(2/2) NJM4565M (TE2)
R1011 150k
C1006 150p
IC1001
MIC AMP
R1014 330k
C1011 470p
R1016 15k
C1015 0.22 50V
J1003 MIC 1
C1004 10 16V
R1008 100
C1005 2.2 50V
R1012 10k
C1009 2.2 50V
C1010 0.1 50V
C1008 47p
RV1001 50k
MIC LEVEL
R1013 100
IC1001(1/2) NJM4565M (TE2)
C1013 47p
C1017 0.01
R1018 10k
C1016 0.01
R1017 10k
J1002 MIC 2
R1007 220
R1010 4.7k
R1006 100k
R1009 5.6k
C1007 47 16V
C1012 47 16V
R1015 15k
C1014 0.22 50V
N01001 9P
MIC+9V
MIC SW
MIC GND
MICSIG
VIDEO-R
VIDEO-GND
VIDEO-L
VIDEO GND
VIDEO OUT
AUDIO BOARD (2/3) CN203 (Page 51)
G
D1005 1SS355
D1006 1SS355
C1036 0.1
RV1002 50k
ECHO LEVEL
C1020 1 50V
R1024 15k
C1024 0.022
C1029 2.2 50V
R1030 15k
C1023 0.0068
C1028 47 10V
R1026 22k
C1026 0.068
R1029 120k
D1007 UDZS-TE -17-3.9B
TP1002
R1023 22k
C1022 0.001
R1025 22k
C1019 1 50V
R1021 47k
EPT1001 (CHASSIS)
E
J1004 PHONES
FB1003 0
FB1004 0
JW1013 0
R1031 47 1/2W
R1032 47 1/2W
J1001
VIDEO
VIDEO INPUT
AUDIO
L
R
JW1001 0
R1000 75
FB1002 0
R1005 10k
R1002 1k
C1003 100p
C1002 0.001
FB1001
R1004 47k
R1001 1k
C1001 0.001
R1003 47k
IC1002
IC1002 M65850FP-E1 ECHO AMP
LPF2OUT
CC2LPF2IN
OP2OUT
OP2IN
OP1OUT REF
CLOCK
LPF1OUT
LPF1IN VCC
NC
GND
CC1
OP1IN
TP1001
C1018 0.15
C1021 0.47 50V
C1027 0.068
C1025 0.47 50V
R1027 22k
C1031 0.001
R1028 22k
R1022 22k
C1030 0.0068
D1001 1SS355
D1002 1SS355
C1034 0.1
D1004 1SS355
D1003 1SS355
C1035 0.1
EP1001
EPT1002 (CHASSIS)
N01002 4P
HP-L
HP-GND
HP-R
HP SW
AUDIO BOARD (1/3) CN755 (Page 50)
F

7-27. PRINTED WIRING BOARD — SURROUND AMP SECTION — (HCD-GNZ8D/GNZ9D)

• Refer to page 40 for Circuit Boards Location.

LF : Uses unleaded solder.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A
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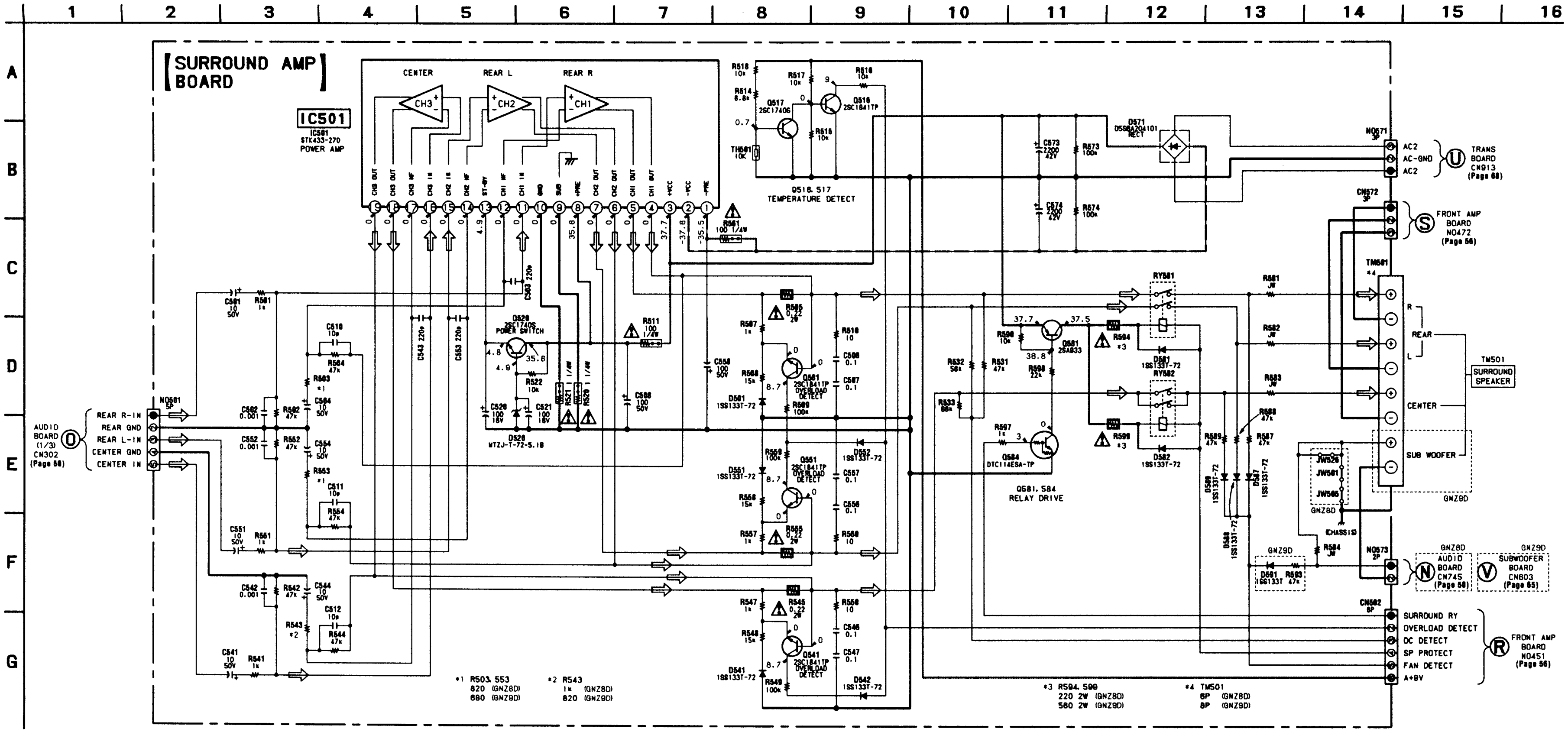
【SURROUND AMP BOARD】
(CHASSIS)
EP501
LP501
LP502
TRANS BOARD CN913 (Page 66)
U
N0571
D571
R573
R574
C573
C574
GNZ9D
SUBWOOFER BOARD CN603 (Page 64)
V
GNZ8D
AUDIO BOARD CN745 (Page 49)
N
TH501
IC501
19
1
JW540
Q517
R515
Q516
R545
R547
Q541
R548
D541
R549
D542
C544
C512
R544
C543
R543
R542
C542
R541
C541
C504
C553
R553
R503
JW525
R554
C511
R502
C502
C554
R552
C552
R551
C551
C501
R501
C503
JW518
JW524
JW506
R504
C510
R557
R555
R507
JW517
R505
R520
R521
JW516
JW534
Q551
R558
D551
R560
Q501
R508
D501
R510
JW514
JW513
JW512
JW511
JW509
R559
C557
C556
R509
C507
C506
N0573
R593
R584
D582
D591
RY582
JW510
D589
R589
R583
JW505
JW501
JW502
JW503
TM501
JW526
SUB WOOFER
CENTER
L
REAR
R
TM501 SURROUND SPEAKER
D588
R588
R582
CN572
R531
R532
R533
JW507
R511
RY581
R581
C508
R561
JW521
C558
JW535
JW536
R522
C520
D520
Q520
C521
JW508
R599
R594
D581
D587
R587
JW533
JW530
JW529
JW528
D552
JW523
JW527
JW522
N0501
JW532
JW531
JW515
JW519
R597
Q584
R598
Q581
R590
CN502
R514
R517
R516
R518
R550
C547
C546
1-865-688-
11
(11)
AUDIO BOARD CN302 (Page 49)
O
FRONT AMP BOARD N0451 (Page 55)
R
FRONT AMP BOARD N0472 (Page 55)
S

• Semiconductor Location

Ref. No.	Location	Ref. No.	Location
D501	C-9	D591	B-11
D520	E-10		
D541	C-7	IC501	B-9
D542	C-6		
D551	C-9	Q501	C-9
D552	D-6	Q516	B-6
D571	C-3	Q517	B-6
D581	E-12	Q520	E-10
D582	B-11	Q541	C-7
D587	E-12	Q551	C-9
D588	D-12	Q581	E-7
D589	C-11	Q584	E-7

7-28. SCHEMATIC DIAGRAM — SURROUND AMP SECTION — (HCD-GNZ8D/GNZ9D)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A
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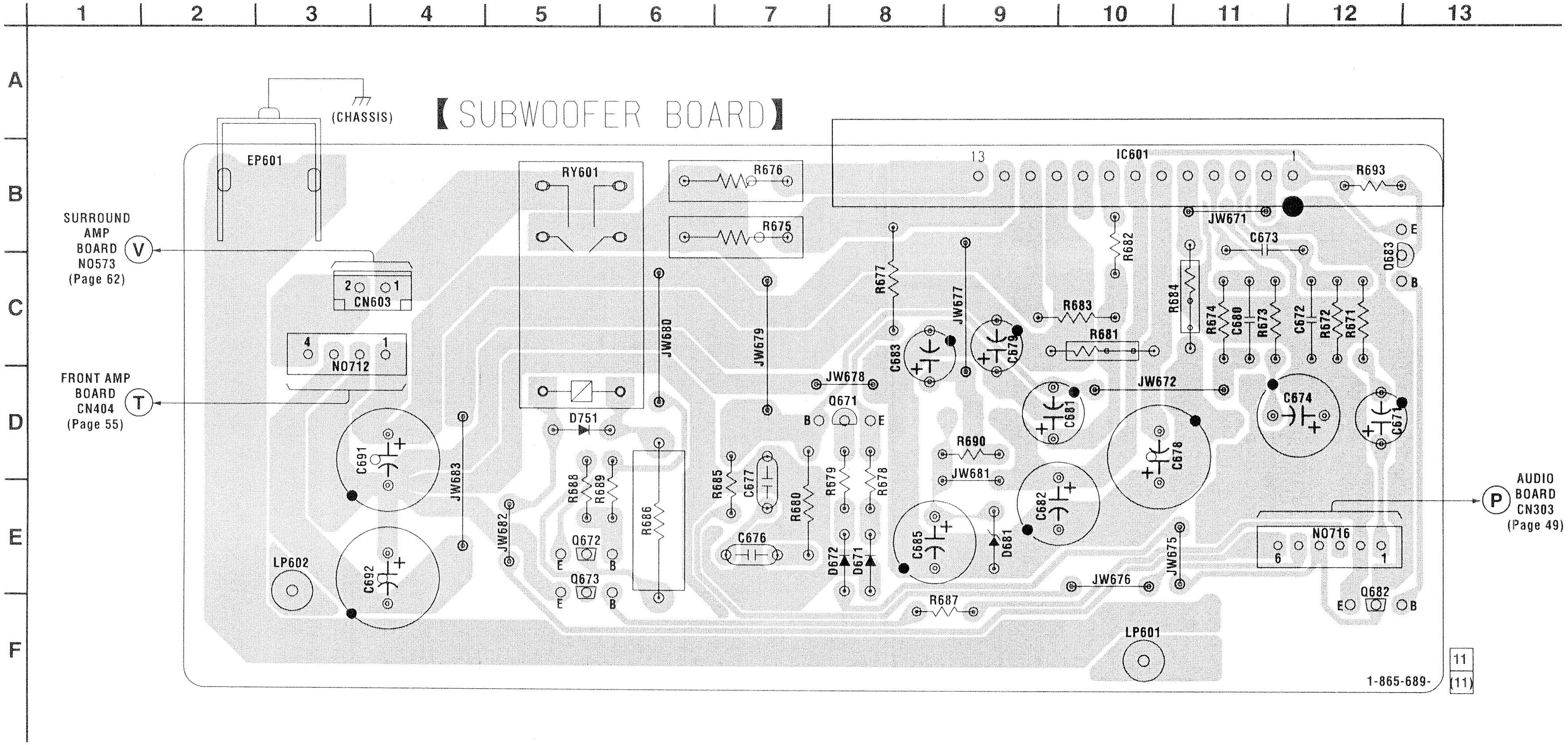
G
SURROUND AMP BOARD
IC501
IC501 STK433-270 POWER AMP
CENTER
REAR L
REAR R
CH3
CH2
CH1
Q516, 517 TEMPERATURE DETECT
Q517 2SC1740S
Q516 2SC1841TP
TH501 10K
D571 D5SBA20-4101 RECT
C573 2200 42V
C574 2200 42V
R573 100k
R574 100k
NO571 3P
AC2
AC-GND
AC2
TRANS BOARD CN913 (Page 68)
CN572 3P
FRONT AMP BOARD NO472 (Page 56)
TM501 *4
REAR
CENTER
SUB WOOFER
TM501 SURROUND SPEAKER
GNZ8D
GNZ9D
RY501
RY502
Q581 2SA933
Q584 DTC114ESA-TP
Q581, 584 RELAY DRIVE
D581 1SS133T-72
D582 1SS133T-72
Q520 2SC1740S POWER SWITCH
D520 MTZJ-T-72-5.1B
Q501 2SC1841TP OVERLOAD DETECT
Q551 2SC1841TP OVERLOAD DETECT
Q541 2SC1841TP OVERLOAD DETECT
AUDIO BOARD (1/3) CN302 (Page 50)
NO501 5P
REAR R-IN
REAR GND
REAR L-IN
CENTER GND
CENTER IN
NO573 2P
AUDIO BOARD CN745 (Page 50)
SUBWOOFER BOARD CN803 (Page 65)
CN502 6P
SURROUND RY
OVERLOAD DETECT
DC DETECT
SP PROTECT
FAN DETECT
A+8V
FRONT AMP BOARD NO451 (Page 56)
*1 R503, 553 820 (GNZ8D) 680 (GNZ9D)
*2 R543 1k (GNZ8D) 820 (GNZ9D)
*3 R594, 599 220 2W (GNZ8D) 560 2W (GNZ9D)
*4 TM501 6P (GNZ8D) 8P (GNZ9D)

7-29. PRINTED WIRING BOARD — SUBWOOFER SECTION — (HCD-GNZ9D)

• Refer to page 40 for Circuit Boards Location. LF : Uses unleaded solder.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A
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C
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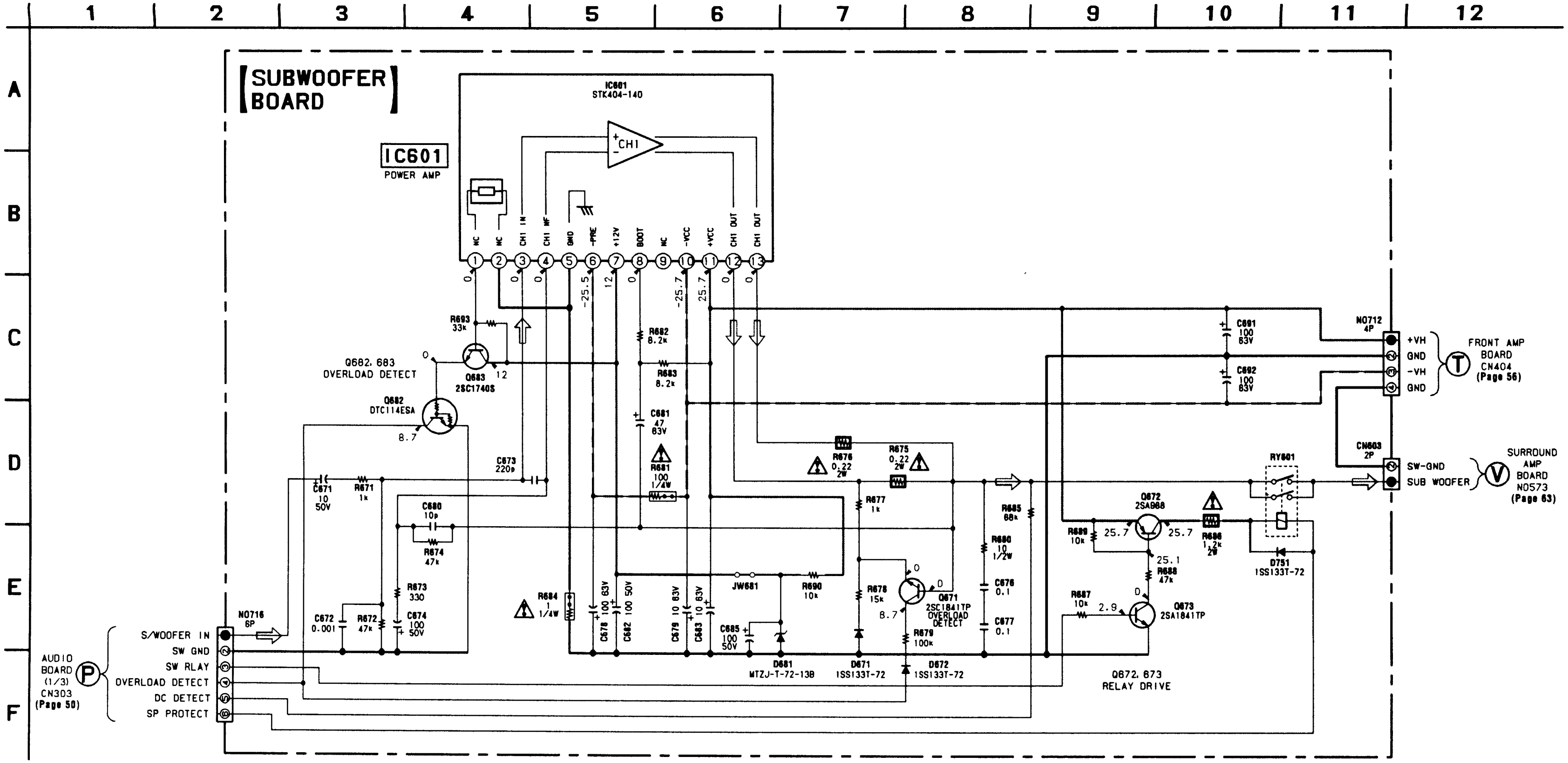
E
F
(CHASSIS)
【SUBWOOFER BOARD】
EP601
SURROUND AMP BOARD NO573 (Page 62)
V
FRONT AMP BOARD CN404 (Page 55)
T
AUDIO BOARD CN303 (Page 49)
P
CN603
NO712
RY601
R676
R675
IC601
13
1
R693
JW671
C673
Q683
E
B
R682
R677
JW677
C683
C679
R683
R681
R684
R674
C680
R673
C672
R672
R671
JW680
JW679
JW678
Q671
JW672
C674
C671
C681
C678
D751
R690
JW681
C691
JW683
R688
R689
R686
R685
C677
R680
R679
R678
C682
C685
D681
JW682
Q672
Q673
C676
D672
D671
JW675
JW676
NO716
6
Q682
LP602
C692
R687
LP601
1-865-689-
11
(11)

• Semiconductor Location

Ref. No.	Location
D671	E-8
D672	E-8
D681	E-9
D751	D-5
IC601	B-10
Q671	D-8
Q672	E-5
Q673	E-5
Q682	E-12
Q683	C-12

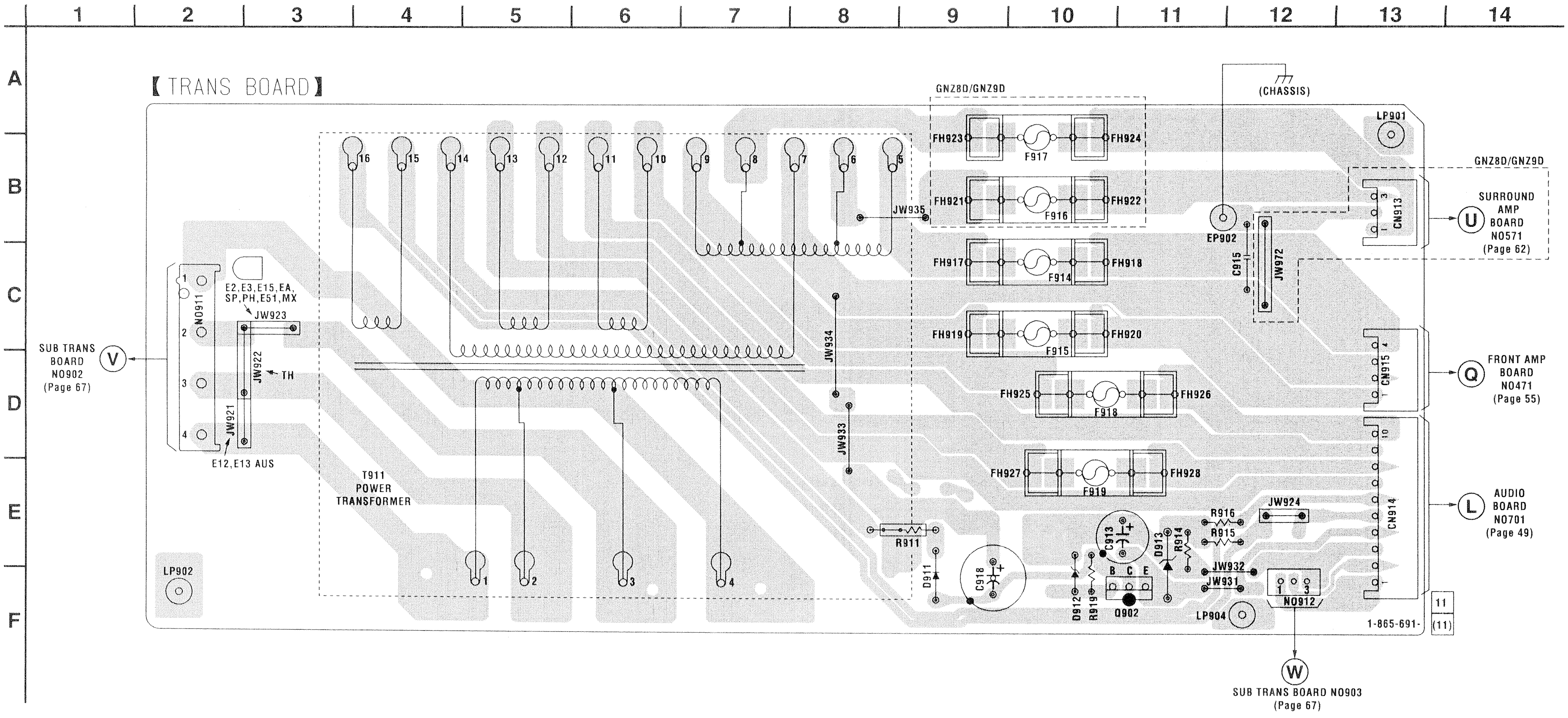
7-30. SCHEMATIC DIAGRAM — SUBWOOFER SECTION — (HCD-GNZ9D)


1 2 3 4 5 6 7 8 9 10 11 12
A B C D E F
SUBWOOFER BOARD
IC601 POWER AMP
IC601 STK404-140
CH1
NC NC CH1 IN CH1 NF GND -PRE +12V BOOT NC -VCC +VCC CH1 OUT CH1 OUT
1 2 3 4 5 6 7 8 9 10 11 12 13
-25.5 12 -25.7 25.7
R693 33k
Q682, 683 OVERLOAD DETECT
Q683 2SC1740S
Q682 DTC114ESA
8.7
R682 8.2k
R683 8.2k
C681 47 63V
R681 100 1/4W
C673 220p
C671 10 50V
R671 1k
C680 10p
R674 47k
R673 330
C672 0.001
R672 47k
C674 100 50V
NO716 6P
R684 1 1/4W
C678 100 63V
C682 100 50V
C679 10 63V
C683 10 63V
C685 100 50V
JW681
R690 10k
D681 MTZJ-T-72-13B
D671 1SS133T-72
D672 1SS133T-72
R676 0.22 2W
R675 0.22 2W
R677 1k
R678 15k
Q671 2SC1841TP OVERLOAD DETECT
R679 100k
R680 10 1/2W
R685 68k
C676 0.1
C677 0.1
C691 100 63V
C692 100 63V
NO712 4P
+VH GND -VH GND
FRONT AMP BOARD CN404 (Page 56)
CN603 2P
SW-GND SUB WOOFER
SURROUND AMP BOARD NO573 (Page 63)
RY601
Q672 2SA968
R689 10k
25.7 25.7 25.1
R686 1.2k 2W
R688 47k
D751 1SS133T-72
R687 10k
2.9
Q673 2SA1841TP
Q672, 673 RELAY DRIVE
S/WOOFER IN
SW GND
SW RLAY
OVERLOAD DETECT
DC DETECT
SP PROTECT
AUDIO BOARD (1/3) CN303 (Page 50)

7-31. PRINTED WIRING BOARD — TRANS SECTION —

• Refer to page 40 for Circuit Boards Location.

LF : Uses unleaded solder.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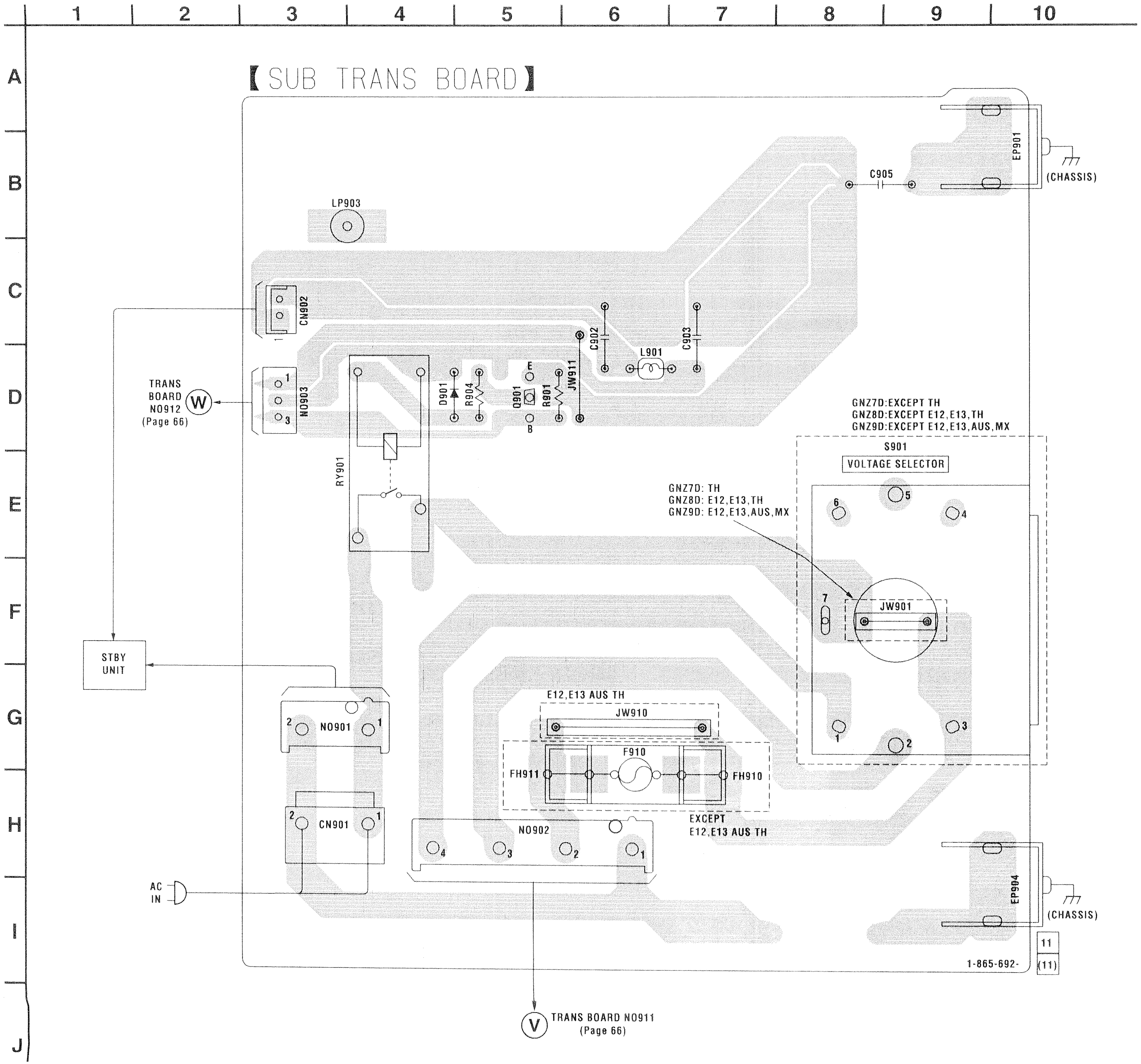
【 TRANS BOARD 】
GNZ8D/GNZ9D
(CHASSIS)
LP901
FH923
FH924
F917
FH921
FH922
F916
JW935
FH917
FH918
F914
FH919
FH920
F915
FH925
FH926
F918
FH927
FH928
F919
EP902
C915
JW972
GNZ8D/GNZ9D
CN913
SURROUND AMP BOARD NO571 (Page 62)
U
CN915
FRONT AMP BOARD NO471 (Page 55)
Q
CN914
AUDIO BOARD NO701 (Page 49)
L
NO911
E2,E3,E15,EA, SP,PH,E51,MX
JW923
JW922
TH
JW921
E12,E13 AUS
SUB TRANS BOARD NO902 (Page 67)
V
JW934
JW933
T911 POWER TRANSFORMER
R911
D911
C918
D912
R919
C913
D913
R914
B C E
Q902
R916
R915
JW924
JW932
JW931
NO912
LP904
LP902
1-865-691-
11
(11)
W
SUB TRANS BOARD NO903 (Page 67)

7-32. PRINTED WIRING BOARD — SUB TRANS SECTION —

• Refer to page 40 for Circuit Boards Location.

LF : Uses unleaded solder.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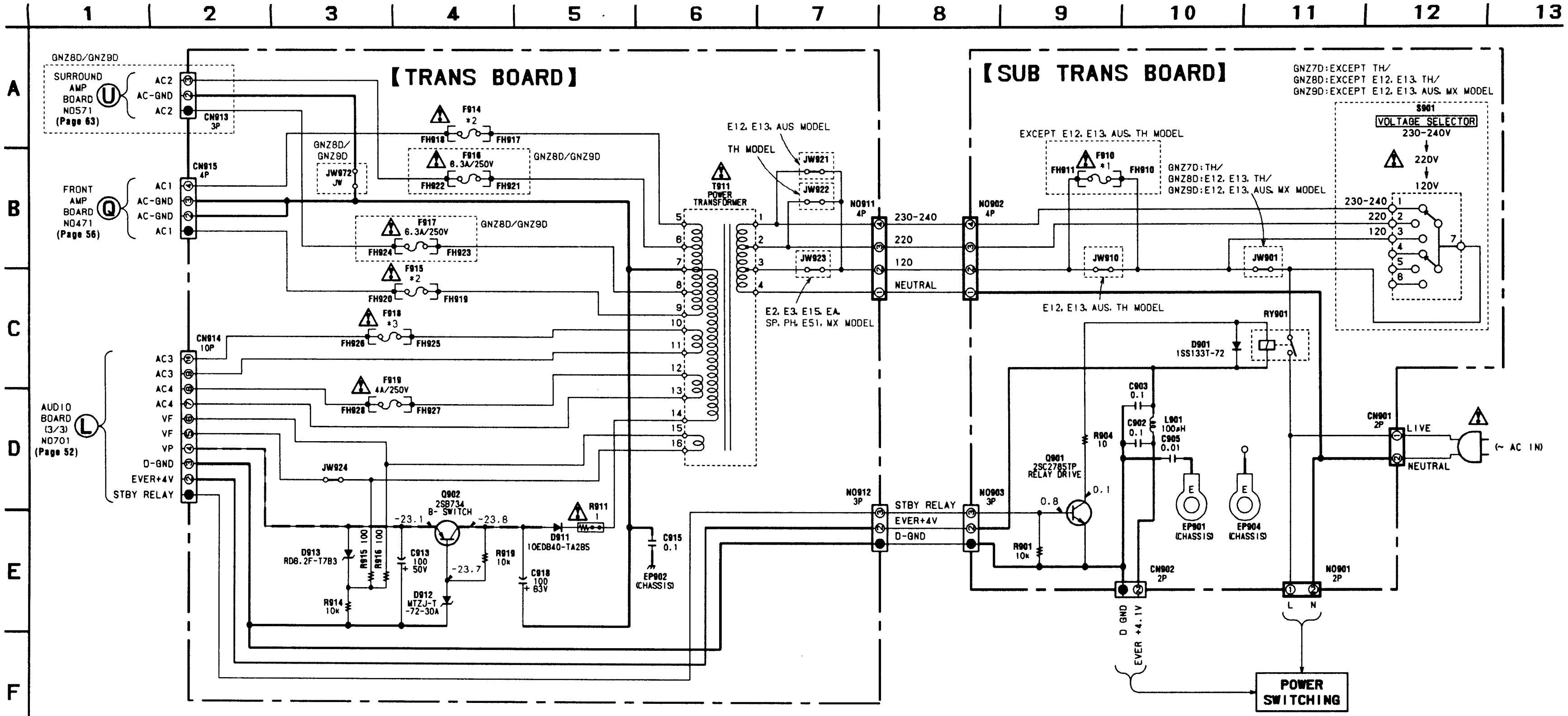
A
B
C
D
E
F
G
H
I
J
【SUB TRANS BOARD】
EP901
(CHASSIS)
C905
LP903
CN902
C902
C903
L901
TRANS
BOARD
NO912
(Page 66)
W
NO903
1
3
D901
R904
E
Q901
B
R901
JW911
RY901
GNZ7D:EXCEPT TH
GNZ8D:EXCEPT E12,E13,TH
GNZ9D:EXCEPT E12,E13,AUS,MX
S901
VOLTAGE SELECTOR
GNZ7D: TH
GNZ8D: E12,E13,TH
GNZ9D: E12,E13,AUS,MX
6
5
4
7
JW901
1
2
3
STBY
UNIT
NO901
2
1
E12,E13 AUS TH
JW910
F910
FH911
FH910
EXCEPT
E12,E13 AUS TH
CN901
2
1
NO902
4
3
2
1
AC
IN
EP904
(CHASSIS)
11
1-865-692-
(11)
V
TRANS BOARD NO911
(Page 66)

7-33. SCHEMATIC DIAGRAM — POWER SECTION —


1
2
3
4
5
6
7
8
9
10
11
12
13
A
B
C
D
E
F
[TRANS BOARD]
[SUB TRANS BOARD]
GNZ8D/GNZ9D
SURROUND AMP BOARD (U) NO571 (Page 63)
AC2
AC-GND
AC2
CN913 3P
FRONT AMP BOARD (Q) NO471 (Page 56)
AC1
AC-GND
AC-GND
AC1
CN915 4P
AUDIO BOARD (L) (3/3) NO701 (Page 52)
AC3
AC3
AC4
AC4
VF
VF
VP
D-GND
EVER+4V
STBY RELAY
CN914 10P
GNZ8D/ GNZ9D
JW972 JW
F914 *2
FH918
FH917
F916 6.3A/250V
FH922
FH921
GNZ8D/GNZ9D
F917 6.3A/250V
FH924
FH923
GNZ8D/GNZ9D
F915 *2
FH920
FH919
F918 *3
FH926
FH925
F919 4A/250V
FH928
FH927
T911 POWER TRANSFORMER
E12, E13, AUS MODEL
TH MODEL
JW921
JW922
JW923
E2, E3, E15, EA, SP, PH, E51, MX MODEL
NO911 4P
230-240
220
120
NEUTRAL
JW924
Q902 2SB734 B- SWITCH
-23.1
-23.8
-23.7
R911 1
D911 10EDB40-TA2B5
D913 RD8.2F-T7B3
R915 100
R916 100
C913 100 50V
R914 10k
D912 MTZJ-T -72-30A
R919 10k
C918 100 63V
C915 0.1
EP902 (CHASSIS)
NO912 3P
STBY RELAY
EVER+4V
D-GND
GNZ7D:EXCEPT TH/
GNZ8D:EXCEPT E12, E13, TH/
GNZ9D:EXCEPT E12, E13, AUS, MX MODEL
S901
VOLTAGE SELECTOR
230-240V
220V
120V
EXCEPT E12, E13, AUS, TH MODEL
F910 *1
FH911
FH910
GNZ7D:TH/
GNZ8D:E12, E13, TH/
GNZ9D:E12, E13, AUS, MX MODEL
NO902 4P
JW910
JW901
E12, E13, AUS, TH MODEL
RY901
D901 1SS133T-72
C903 0.1
C902 0.1
L901 100µH
C905 0.01
R904 10
Q901 2SC2785TP RELAY DRIVE
0.1
0.8
NO903 3P
R901 10k
EP901 (CHASSIS)
EP904 (CHASSIS)
E
CN902 2P
D GND
EVER +4.1V
CN901 2P
LIVE
NEUTRAL
(~ AC IN)
NO901 2P
L
N
POWER SWITCHING

*2 F914, 915
6.3A/250V (GNZ7D/GNZ8D)
8A/250V (GNZ9D)

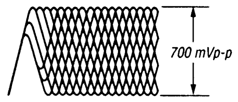
*3 F918
4A/250V (GNZ7D)
5A/250V (GNZ8D/GNZ9D)

*1 F910
5A/250V (GNZ7D:EXCEPT E12, E13, TH)
8A/250V (GNZ8D:EXCEPT E12, E13, TH/GNZ9D:EXCEPT E12, E13, AUS, TH)

• Waveforms

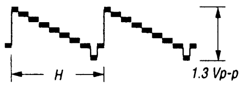
– DMB10 BOARD –

① IC102 ⑥ (DVDRFIP)



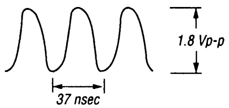
200 mV/DIV, 100 nsec/DIV

④ IC102 (194) (YUV1)



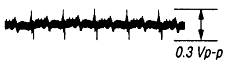
500 mV/DIV, 20 μsec/DIV

⑦ IC102 (229) (YUV1)



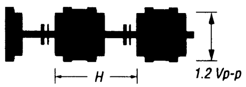
500 mV/DIV, 20 μsec/DIV

② IC102 ㉛ (FED)



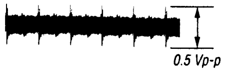
100 mV/DIV, 1 msec/DIV

⑤ IC102 (196) (YUV2)



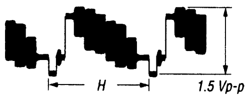
500 mV/DIV, 20 μsec/DIV

③ IC102 ㉜ (TEO)



500 mV/DIV, 1 msec/DIV

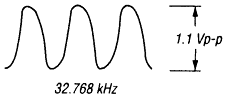
⑥ IC102 (198) (YUV3)



500 mV/DIV, 20 μsec/DIV

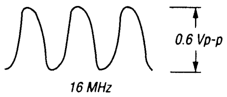
– PANEL BOARD –

① IC101 ⑩ (X CIN)



0.5 V/DIV, 20 μsec/DIV

② IC101 ⑬ (X OUT)

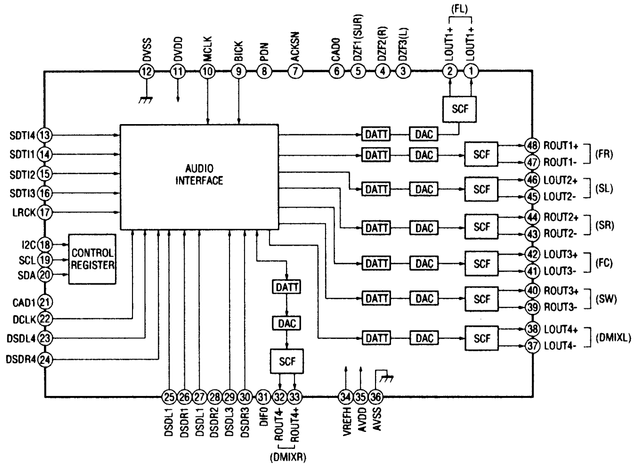


0.5 V/DIV, 0.5 μsec/DIV

• IC Block Diagram

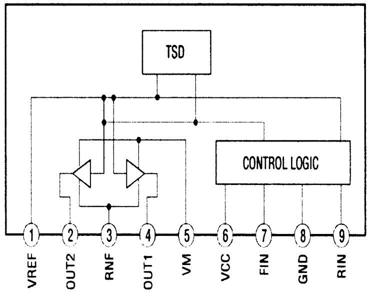
– DMB10 BOARD (1/4) –

IC301 AK4358VQ-L


(FL)
DVSS
DVDD
MCLK
BICK
PDN
ACKSN
CAD0
DZF1(SUR)
DZF2(R)
DZF3(L)
LOUT1+
LOUT1+
12
11
10
9
8
7
6
5
4
3
2
1
SCF
SDTI4 13
SDTI1 14
SDTI2 15
SDTI3 16
LRCK 17
AUDIO INTERFACE
I2C 18
SCL 19
SDA 20
CONTROL REGISTER
CAD1 21
DCLK 22
DSDL4 23
DSDR4 24
DATT
DAC
SCF
48 ROUT1+
47 ROUT1-
(FR)
46 LOUT2+
45 LOUT2-
(SL)
44 ROUT2+
43 ROUT2-
(SR)
42 LOUT3+
41 LOUT3-
(FC)
40 ROUT3+
39 ROUT3-
(SW)
38 LOUT4+
37 LOUT4-
(DMIXL)
25
26
27
28
29
30
31
32
33
34
35
36
DSDL1
DSDR1
DSDL1
DSDR2
DSDL3
DSDR3
DIF0
ROUT4-
ROUT4+
(DMIXR)
VREFH
AVDD
AVSS

– DRIVER BOARD –

IC701 BA6956AN
IC712 BA6956AN


TSD
CONTROL LOGIC
1
2
3
4
5
6
7
8
9
VREF
OUT2
RNF
OUT1
VM
VCC
FIN
GND
RIN

SECTION 8
EXPLODED VIEWS

NOTE:

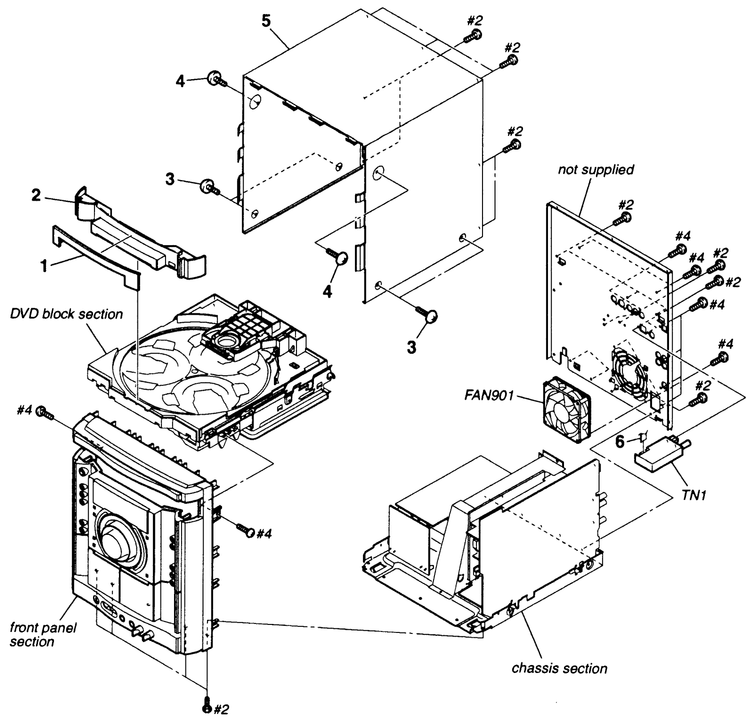
- *The mechanical parts with no reference number in the exploded views are not supplied.*
- Items marked "*" are not stocked since they are seldom required for routine service. Some delay should be anticipated when ordering these items.
- -XX and -X mean standardized parts, so they may have some difference from the original one.
- Accessories are given in the last of this parts list.

- Abbreviation

E2 : 120 V AC area in E model
E3 : 240 V AC area in E model
E12 : 220-240 V AC area in E model
E13 : 220-230 V AC area in E model
E15 : Iran model
E51 : Chilean and Peruvian model
AUS : Australian model
EA : Saudi Arabia model
PH : Philippine model
SP : Singapore model
MX : Mexican model
TH : Thai model

The components identified by mark ⚠ or dotted line with mark ⚠ are critical for safety.
Replace only with part number specified.

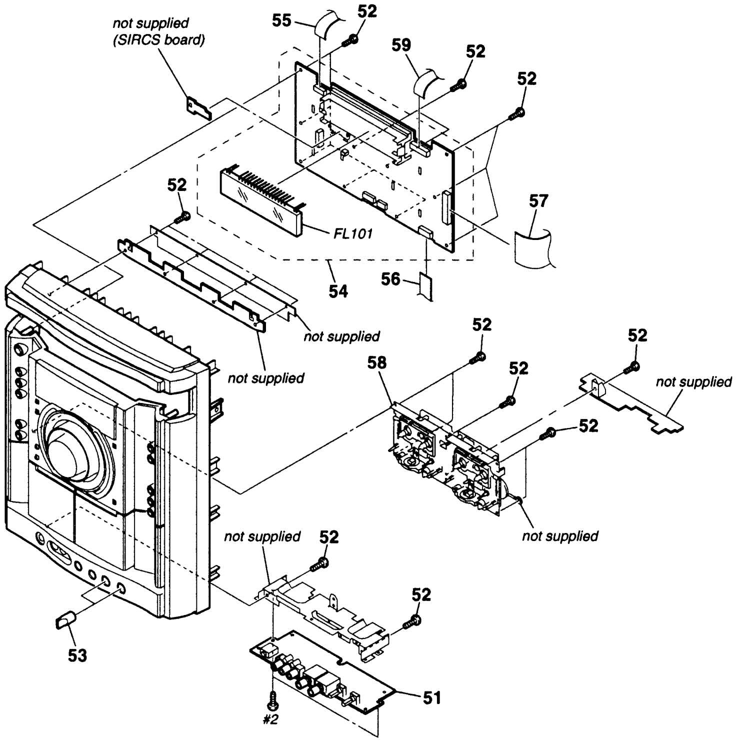
8-1. MAIN SECTION


5
#2
#2
4
#2
3
2
1
4
3
not supplied
#2
#4
#4
#2
#2
#4
#4
#2
DVD block section
FAN901
6
TN1
#4
#4
front panel section
chassis section
#2

Ref. No.	Part No.	Description	Remark
1	2-582-718-01	ESCUTCHEON (LOADING) (GNZ8D/GNZ9D:EXCEPT E51,E2,MX)	
1	2-582-718-11	ESCUTCHEON (LOADING) (GNZ9D:E51,E2,MX)	
1	2-582-718-21	ESCUTCHEON (LOADING) (GNZ7D:E13)	
1	2-582-718-31	ESCUTCHEON (LOADING) (GNZ7D:EXCEPT E13)	
2	2-582-709-01	PANEL, LOADING (GNZ9D:EXCEPT E2,E51,MX)	
2	2-582-709-11	PANEL, LOADING (GNZ8D)	
2	2-582-709-21	PANEL, LOADING (GNZ7D:EXCEPT E2)	
2	2-582-709-31	PANEL, LOADING (GNZ9D:E2,E51,MX)	
2	2-582-709-41	PANEL, LOADING (GNZ7D:E2)	

Ref. No.	Part No.	Description	Remark
3	3-363-099-02	SCREW (CASE 3 TP2)	
4	3-363-099-32	SCREW (CASE 3 TP2)	
5	4-248-760-41	CASE, CABINET STEEL	
6	1-828-956-11	WIRE (FLAT TYPE) (9 CORE)	
FAN901	1-763-072-11	FAN, DC	
TN1	1-693-671-11	TUNER (TM-10E)	
#2	7-685-871-01	SCREW +BVTT 3X6 (S)	
#4	7-685-647-79	SCREW +BVTP 3X10 TYPE2 TT (B)	

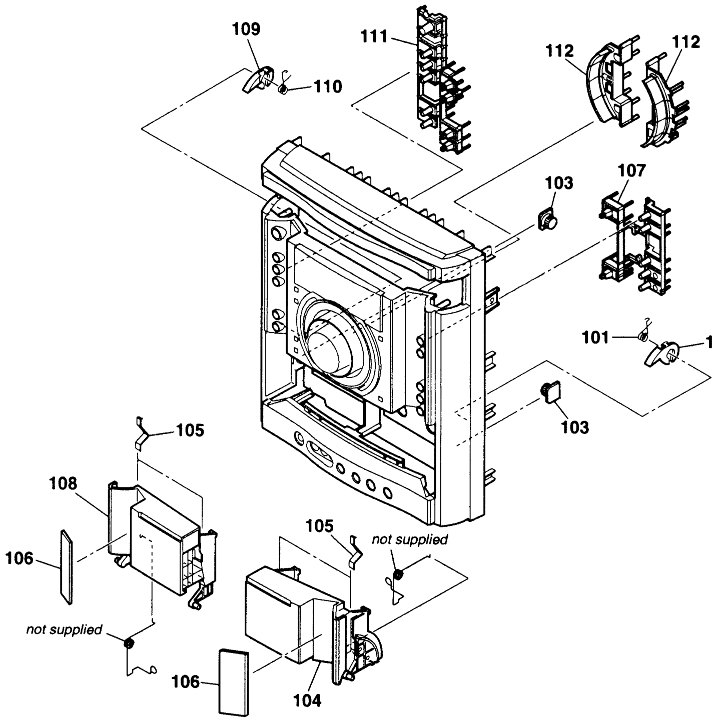
8-2. FRONT PANEL SECTION (1)


not supplied (SIRCS board)
55
52
59
52
52
52
FL101
57
54
56
not supplied
not supplied
52
58
52
52
not supplied
52
not supplied
not supplied
52
52
53
51
#2

Ref. No.	Part No.	Description	Remark
51	A-1095-805-A	JACK BOARD, COMPLETE (EXCEPT TH)	
51	A-1111-503-A	JACK BOARD, COMPLETE (TH)	
52	3-087-053-01	+BVTP 2.6 (3CR)	
53	4-238-628-12	KNOB (MIC)	
54	A-1095-804-A	PANEL BOARD, COMPLETE (EXCEPT TH)	
54	A-1111-502-A	PANEL BOARD, COMPLETE (TH)	
55	1-828-977-11	WIRE (FLAT TYPE) (13 CORE)	

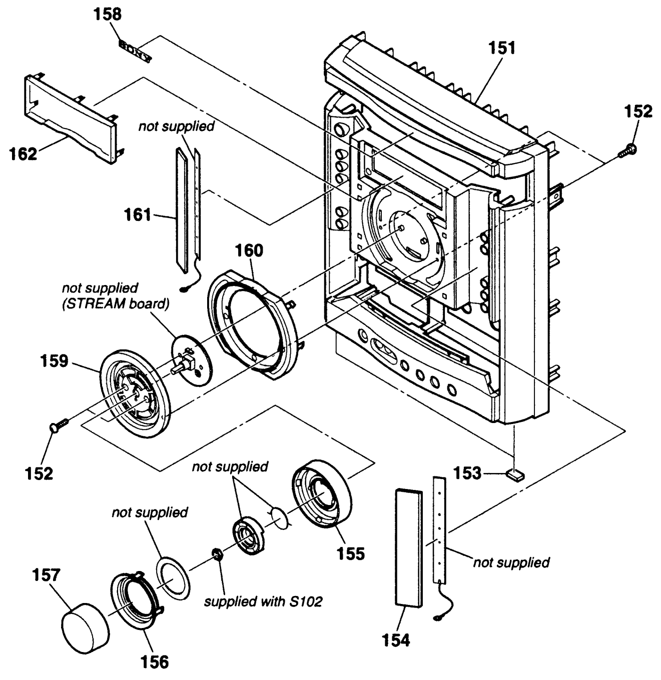
Ref. No.	Part No.	Description	Remark
56	1-828-971-11	WIRE (FLAT TYPE) (13 CORE)	
57	1-829-041-11	WIRE (FLAT TYPE) (27 CORE)	
58	1-797-246-11	DECK, MECHANISM	
59	1-828-332-11	WIRE (FLAT TYPE) (13 CORE)	
FL101	1-519-811-11	INDICATOR TUBE, FLUORESCENT	
#2	7-685-871-01	SCREW +BVTT 3X6 (S)	

8-3. FRONT PANEL SECTION (2)


109
111
112
112
110
103
107
101
102
103
105
108
106
105
not supplied
not supplied
106
104

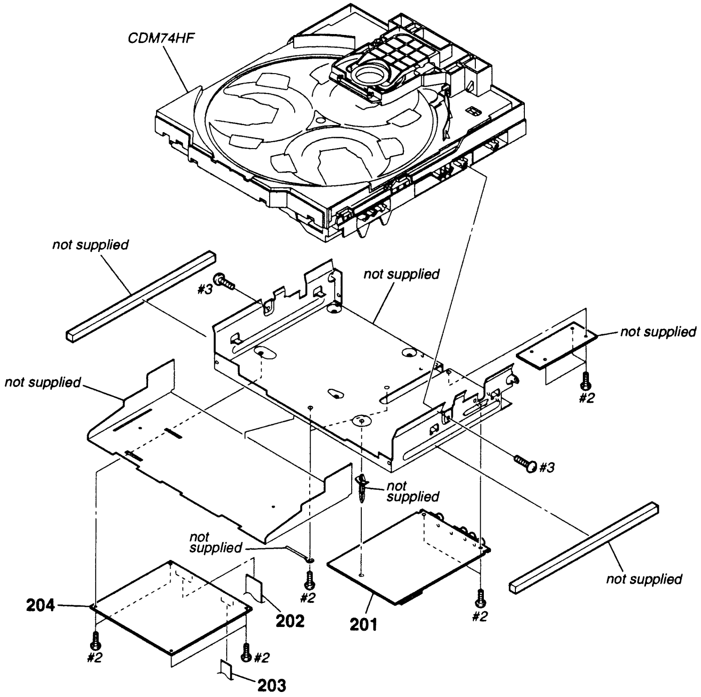
Ref. No.	Part No.	Description	Remark
101	4-231-836-01	SPRING (HEART CAM-A)	
102	4-231-824-01	CAM (A), HEART	
103	4-224-104-41	DAMPER	
104	2-582-708-01	LID (B), CASSETTE	
105	4-238-631-01	SPRING, TAPE	
106	2-582-720-01	ESCUTCHEON (LID TC)	
107	2-582-711-01	BUTTON (DISC)	
108	2-582-707-01	LID (A), CASSETTE	
109	4-231-825-01	CAM (B), HEART	
110	4-231-841-01	SPRING (HEART CAM-B)	
111	X-2050-168-1	BUTTON (POWER) ASSY	
112	2-582-712-01	BUTTON (PLAY)	

8-4. FRONT PANEL SECTION (3)


158
151
152
162
not supplied
161
160
not supplied
(STREAM board)
159
152
not supplied
153
not supplied
155
157
supplied with S102
not supplied
154
156

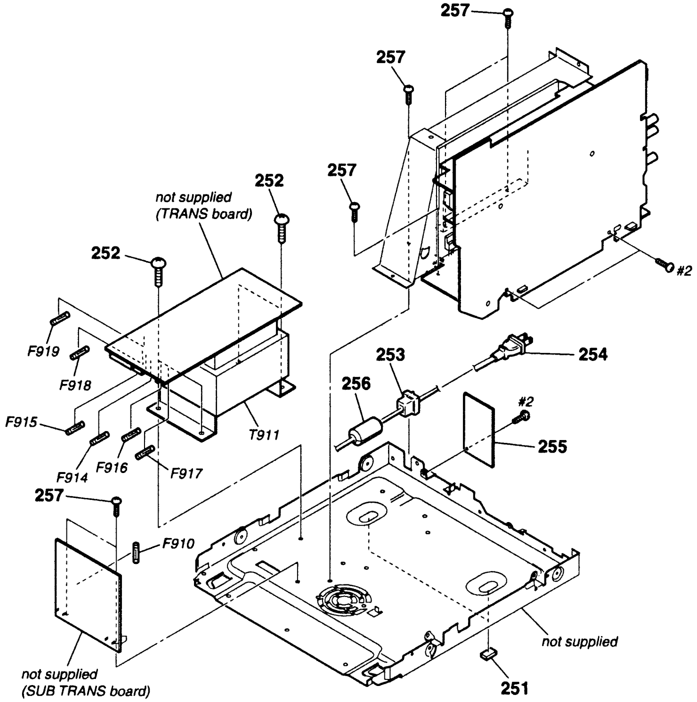
Ref. No.	Part No.	Description	Remark
151	2-582-706-01	PANEL, FRONT	
152	3-087-053-01	+BVTP 2.6 (3CR)	
153	4-233-980-01	RUBBER, FOOT	
154	2-582-719-01	ESCUTCHEON (PANEL)	
155	2-582-715-01	RING (JOG)	
156	2-582-714-01	INDICATOR (JOG)	
157	2-582-713-01	KNOB (VOL) (MX)	
157	2-590-671-01	KNOB (VOL) (EXCEPT MX)	
158	3-038-018-01	EMBLEM, SONY	
159	2-582-716-01	ESCUTCHEON (JOG)	
160	2-582-717-01	ORNAMENT (PLAY)	
161	2-582-719-11	ESCUTCHEON (PANEL)	
162	2-582-721-01	WINDOW, INDICATION	

8-5. DVD BLOCK SECTION


CDM74HF
not supplied
not supplied
#3
not supplied
not supplied
#2
#3
not
supplied
not
supplied
not supplied
204
#2
202
#2
201
#2
#2
203

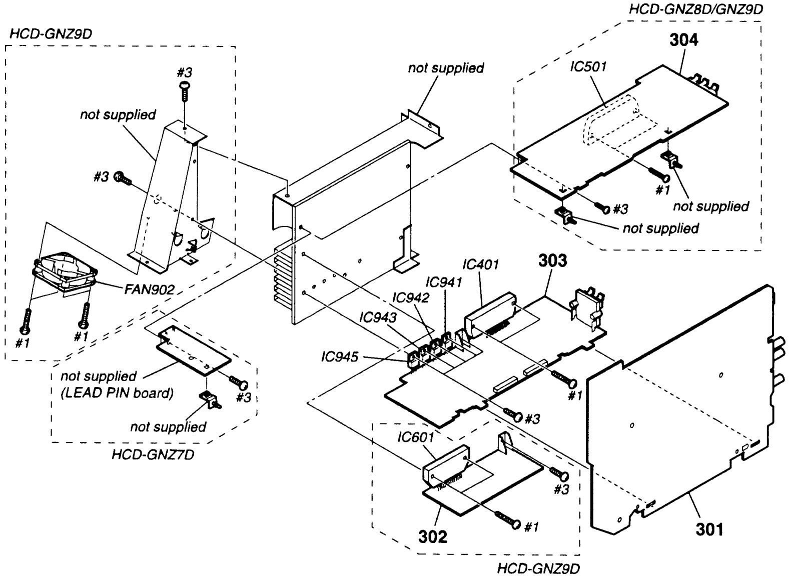
Ref. No.	Part No.	Description	Remark
201	A-1095-819-A	VIDEO BOARD, COMPLETE (EXCEPT TH)	
201	A-1111-533-A	VIDEO BOARD, COMPLETE (TH)	
202	1-828-344-11	WIRE (FLAT TYPE) (15 CORE) (GNZ8D/GNZ9D)	
202	1-828-354-11	WIRE (FLAT TYPE) (17 CORE) (GNZ7D)	
203	1-828-330-11	WIRE (FLAT TYPE) (13 CORE)	
204	A-1095-784-A	DMB10 BOARD, COMPLETE (GNZ9D:SP,PH)	
204	A-1095-785-A	DMB10 BOARD, COMPLETE (GNZ9D:E3,E12,E13,E15,AUS,EA)	
204	A-1095-786-A	DMB10 BOARD, COMPLETE (GNZ9D:E2,E51,MX)	
204	A-1095-787-A	DMB10 BOARD, COMPLETE (GNZ8D:SP,PH)	
204	A-1095-788-A	DMB10 BOARD, COMPLETE (GNZ8D:E3,E12,E13,E15,EA)	
204	A-1095-789-A	DMB10 BOARD, COMPLETE (GNZ7D:SP,PH)	
204	A-1095-790-A	DMB10 BOARD, COMPLETE (GNZ7D:E3,E12,E13,E15,EA)	
204	A-1095-791-A	DMB10 BOARD, COMPLETE (GNZ7D:E2)	
204	A-1111-492-A	DMB10 BOARD, COMPLETE (GNZ9D:TH)	
204	A-1111-493-A	DMB10 BOARD, COMPLETE (GNZ8D:TH)	
204	A-1111-494-A	DMB10 BOARD, COMPLETE (GNZ7D:TH)	
#2	7-685-871-01	SCREW +BVTT 3X6 (S)	
#3	7-685-646-79	SCREW +BVTP 3X8 TYPE2 TT (B)	

8-6. CHASSIS SECTION


257
257
257
252
not supplied
(TRANS board)
252
#2
F919
F918
F915
F914
F916
F917
T911
253
254
256
#2
255
257
F910
not supplied
not supplied
(SUB TRANS board)
251

Ref. No.	Part No.	Description	Remark
251	4-233-980-01	RUBBER, FOOT	
252	4-900-386-01	SCREW	
253	3-703-244-00	BUSHING (2104), CORD (EXCEPT E2,E3,E15,MX)	
* 253	3-703-571-12	BUSHING (S) (4516), CORD (E2,E3,E15,MX)	
⚠254	1-696-847-22	CORD, POWER (AUS)	
⚠254	1-777-071-23	CORD, POWER (E12,E13,E51,EA,SP,PH)	
⚠254	1-824-818-21	CORD, POWER (WITH CONNECTOR) (TH)	
⚠254	1-827-226-11	CORD, POWER (E2,E3,E15,MX)	
⚠255	1-468-737-21	POWER, SWITCHING	
256	1-500-386-11	FILTER, CLAMP (FERRITE CORE) (AUS,EA)	
257	2-630-050-01	+BVTT 3X6 (SUMITITE)	
⚠F910	1-532-505-32	FUSE (5A/250V) (GNZ7D:EXCEPT E12,E13,TH)	
⚠F910	1-533-949-33	FUSE, CYLINDRICAL (TIME LUG) (8A/250V) (GNZ8D:EXCEPT E12,E13,TH/ GNZ9D:EXCEPT E12,E13,AUS,TH)	
⚠F914	1-532-506-33	FUSE (6.3A/250V) (GNZ7D/GNZ8D)	
⚠F914	1-533-949-33	FUSE, CYLINDRICAL (TIME LUG) (8A/250V) (GNZ9D)	
⚠F915	1-532-506-33	FUSE (6.3A/250V) (GNZ7D/GNZ8D)	
⚠F915	1-533-949-33	FUSE, CYLINDRICAL (TIME LUG) (8A/250V) (GNZ9D)	
⚠F916	1-532-506-33	FUSE (6.3A/250V) (GNZ8D/GNZ9D)	
⚠F917	1-532-506-33	FUSE (6.3A/250V) (GNZ8D/GNZ9D)	
⚠F918	1-532-504-33	FUSE (4A/250V) (GNZ7D)	
⚠F918	1-532-505-33	FUSE (5A/250V) (GNZ8D/GNZ9D)	
⚠F919	1-532-504-33	FUSE (4A/250V)	
⚠T911	1-443-174-11	TRANSFORMER, POWER (GNZ7D:EXCEPT EA)	
⚠T911	1-443-175-11	TRANSFORMER, POWER (GNZ7D:EA)	
⚠T911	1-443-352-11	TRANSFORMER, POWER (GNZ8D:EXCEPT EA)	
⚠T911	1-443-362-11	TRANSFORMER, POWER (GNZ8D:EA)	
⚠T911	1-443-690-11	TRANSFORMER, POWER (GNZ9D:EXCEPT EA,MX)	
⚠T911	1-443-691-11	TRANSFORMER, POWER (GNZ9D:EA,MX)	
#2	7-685-871-01	SCREW +BVTT 3X6 (S)	

8-7. AUDIO BOARD SECTION


HCD-GNZ9D
#3
not supplied
#3
FAN902
#1
#1
not supplied
(LEAD PIN board)
#3
not supplied
HCD-GNZ7D
not supplied
HCD-GNZ8D/GNZ9D
304
IC501
#1
not supplied
#3
not supplied
IC401
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IC941
IC942
IC943
IC945
#1
#3
IC601
#3
#1
302
HCD-GNZ9D
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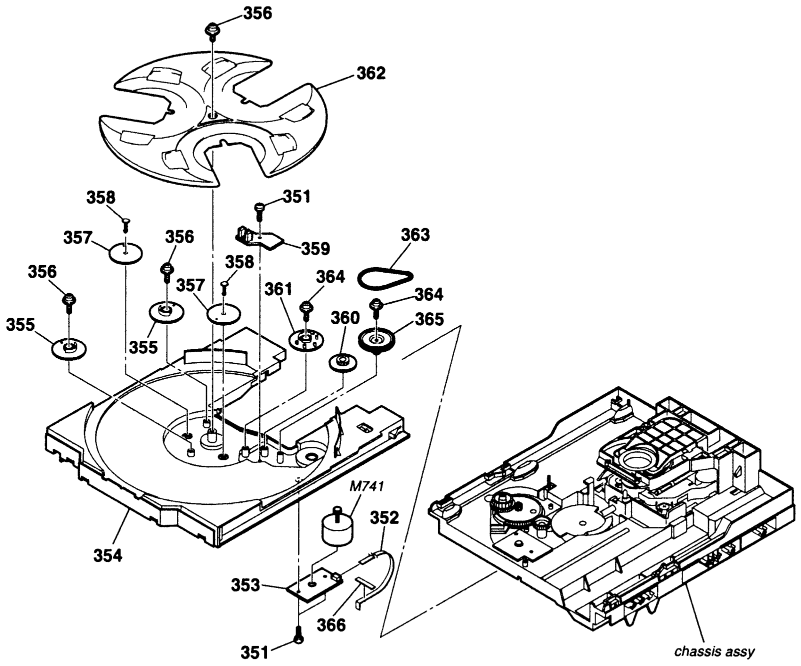
Ref. No.	Part No.	Description	Remark
301	A-1095-768-A	AUDIO BOARD, COMPLETE (GNZ9D:EXCEPT E2,TH)	
301	A-1095-769-A	AUDIO BOARD, COMPLETE (GNZ8D:EXCEPT TH)	
301	A-1095-770-A	AUDIO BOARD, COMPLETE (GNZ7D:EXCEPT E2,TH)	
301	A-1111-480-A	AUDIO BOARD, COMPLETE (GNZ9D:TH)	
301	A-1111-481-A	AUDIO BOARD, COMPLETE (GNZ8D:TH)	
301	A-1111-482-A	AUDIO BOARD, COMPLETE (GNZ7D:TH)	
301	A-1122-987-A	AUDIO BOARD, COMPLETE (GNZ9D:E2)	
301	A-1122-988-A	AUDIO BOARD, COMPLETE (GNZ7D:E2)	
302	A-1095-778-A	SUBWOOFER BOARD, COMPLETE (GNZ9D:EXCEPT TH)	
302	A-1111-488-A	SUBWOOFER BOARD, COMPLETE (GNZ9D:TH)	
303	A-1095-771-A	FRONT AMP BOARD, COMPLETE (GNZ9D:EXCEPT TH)	
303	A-1095-772-A	FRONT AMP BOARD, COMPLETE (GNZ8D:EXCEPT TH)	
303	A-1095-773-A	FRONT AMP BOARD, COMPLETE (GNZ7D:EXCEPT TH)	
303	A-1111-483-A	FRONT AMP BOARD, COMPLETE (GNZ9D:TH)	
303	A-1111-484-A	FRONT AMP BOARD, COMPLETE (GNZ8D:TH)	
303	A-1111-485-A	FRONT AMP BOARD, COMPLETE (GNZ7D:TH)	
304	A-1095-774-A	SURROUND AMP BOARD, COMPLETE (GNZ9D:EXCEPT TH)	
304	A-1095-775-A	SURROUND AMP BOARD, COMPLETE (GNZ8D:EXCEPT TH)	
304	A-1111-486-A	SURROUND AMP BOARD, COMPLETE (GNZ9D:TH)	
304	A-1111-487-A	SURROUND AMP BOARD, COMPLETE (GNZ8D:TH)	
FAN902	1-787-336-11	FAN, DC (GNZ9D)	
IC401	6-600-221-01	IC STK403-130 (GNZ9D)	
IC401	6-705-853-01	IC STK403-120 (GNZ7D/GNZ8D)	
IC501	6-707-960-01	IC STK433-270 (GNZ8D/GNZ9D)	
IC601	6-600-182-01	IC STK404-140S (GNZ9D)	
IC941	8-759-198-03	IC PQ09RF21J00H	
IC942	8-759-701-59	IC NJM78M09FA	
IC943	8-759-701-59	IC NJM78M09FA	
IC945	6-703-546-01	IC TA7804LS	
#1	7-685-650-79	SCREW +BVTP 3X16 TYPE2 IT-3	
#3	7-685-646-79	SCREW +BVTP 3X8 TYPE2 TT (B)	

8-8. DVD MECHANISM DECK SECTION (1)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M741
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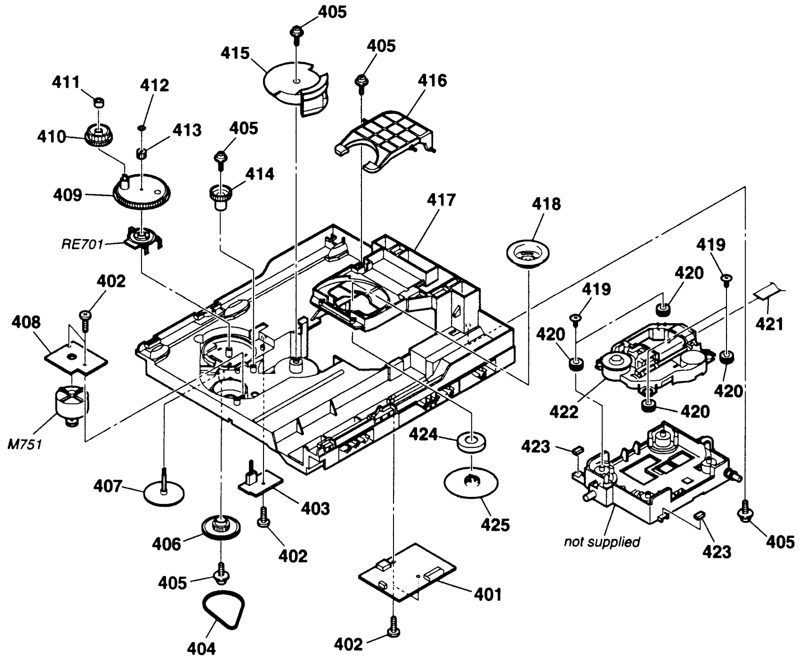
chassis assy

Ref. No.	Part No.	Description	Remark
351	4-218-253-62	SCREW (M2.6), +BTTP	
352	1-776-182-11	WIRE (FLAT TYPE) (5 CORE)	
353	1-687-134-12	MOTOR (TB) BOARD	
354	4-243-815-01	TABLE (LOADING)	
355	4-245-571-02	GEAR (STOPPER)	
356	4-218-252-61	SCREW (+PTPWH M2.6), FLOATING	
357	4-245-570-01	GEAR (JOINT)	
358	4-245-572-01	BUSHING (GEAR)	
359	1-687-132-12	SENSOR BOARD	
360	4-243-820-01	GEAR (TABLE)	
361	4-243-819-01	GEAR (GENEVA)	
362	4-243-816-21	TRAY	
363	4-243-823-01	BELT (TABLE)	
364	4-985-672-01	SCREW (+PTPWH M2.6), FLOATING	
365	4-243-821-01	PULLEY (TABLE)	
366	3-231-598-01	SHEET (BA)	
M741	A-4723-963-A	MOTOR ASSY, TABLE (TABLE)	

8-9. DVD MECHANISM DECK SECTION (2)



Ref. No.	Part No.	Description	Remark
401	A-1103-756-A	DRIVER BOARD, COMPLETE	
402	4-218-253-52	SCREW (M2.6), +BTTP	
403	1-687-669-12	SW BOARD	
404	4-244-034-01	BELT (LOADING)	
405	4-985-672-01	SCREW (+PTPWH M2.6), FLOATING	
406	4-225-844-01	GEAR (LOADING A)	
407	4-224-613-01	GEAR (SHAFT)	
408	1-687-133-12	MOTOR (LD) BOARD	
409	4-244-108-01	GEAR, SWING	
410	4-224-609-01	GEAR (LOADING C)	
411	4-224-608-01	COLLAR, SWING	
412	3-016-533-11	WASHER (FR), STOPPER	
413	4-224-611-01	GEAR (LOADING B)	
414	4-224-606-01	GEAR (RV)	
415	4-243-818-01	GEAR (U/D)	
416	2-541-918-01	LIFTER (H), LEVER	
417	4-243-817-41	CHASSIS	
418	2-345-983-01	PULLEY B (310), CHUCKING	
419	3-087-599-01	INSULATOR SCREW	
420	3-088-372-01	INSULATOR	
421	1-828-771-11	WIRE (FLAT TYPE) (24 CORE)	
⚠422	8-820-291-02	OPTICAL PICK-UP (KHM-310CAB/C2RP)	
423	4-250-098-11	CUSHION	
424	4-251-923-01	YOKE (310)	
425	2-345-982-01	PULLEY A (310), CHUCKING	
M751	A-4736-655-A	MOTOR ASSY, LOADING (LOADING)	
RE701	1-477-680-12	ENCODER, ROTARY (DISC TRAY ADDRESS DETECT)	

AUDIO

SECTION 9
ELECTRICAL PARTS LIST

NOTE:

- Due to standardization, replacements in the parts list may be different from the parts specified in the diagrams or the components used on the set.
- -XX and -X mean standardized parts, so they may have some difference from the original one.
- RESISTORS
  All resistors are in ohms.
  METAL:Metal-film resistor.
  METAL OXIDE: Metal oxide-film resistor.
  F:nonflammable
- Items marked "*" are not stocked since they are seldom required for routine service. Some delay should be anticipated when ordering these items.

- SEMICONDUCTORS
  In each case, u : μ, for example:
  uA.. : μA.. uPA.. : μPA..
  uPB.. : μPB.. uPC.. : μPC.. uPD.. : μPD..
- CAPACITORS
  uF : μF
- COILS
  uH : μH

The components identified by mark ⚠ or dotted line with mark ⚠ are critical for safety.
Replace only with part number specified.

When indicating parts by reference number, please include the board.

- Abbreviation
  E2 : 120 V AC area in E model
  E3 : 240 V AC area in E model
  E12 : 220-240 V AC area in E model
  E13 : 220-230 V AC area in E model
  E15 : Iran model
  E51 : Chilean and Peruvian model
  AUS : Australian model
  EA : Saudi Arabia model
  PH : Philippine model
  SP : Singapore model
  MX : Mexican model
  TH : Thai model

Ref. No.	Part No.	Description			Remark
	A-1095-768-A	AUDIO BOARD, COMPLETE (GNZ9D:EXCEPT E2,TH)			
	A-1095-769-A	AUDIO BOARD, COMPLETE (GNZ8D:EXCEPT TH)			
	A-1095-770-A	AUDIO BOARD, COMPLETE (GNZ7D:EXCEPT E2,TH)			
	A-1111-480-A	AUDIO BOARD, COMPLETE (GNZ9D:TH)			
	A-1111-481-A	AUDIO BOARD, COMPLETE (GNZ8D:TH)			
	A-1111-482-A	AUDIO BOARD, COMPLETE (GNZ7D:TH)			
	A-1122-987-A	AUDIO BOARD, COMPLETE (GNZ9D:E2)			
	A-1122-988-A	AUDIO BOARD, COMPLETE (GNZ7D:E2)			
		**********************			
		< CAPACITOR >			
C201	1-164-156-11	CERAMIC CHIP	0.1uF		25V
C202	1-104-658-11	ELECT	100uF	20%	10V
C203	1-104-658-11	ELECT	100uF	20%	10V
C204	1-104-658-11	ELECT	100uF	20%	10V
C205	1-104-658-11	ELECT	100uF	20%	10V
C211	1-126-964-11	ELECT	10uF	20%	50V
C212	1-126-964-11	ELECT	10uF	20%	50V
C213	1-126-964-11	ELECT	10uF	20%	50V
C214	1-126-964-11	ELECT	10uF	20%	50V
C215	1-126-964-11	ELECT	10uF	20%	50V
C217	1-126-964-11	ELECT	10uF	20%	50V
C218	1-164-227-11	CERAMIC CHIP	0.022uF	10%	25V
C219	1-164-227-11	CERAMIC CHIP	0.022uF	10%	25V
C220	1-165-176-11	CERAMIC CHIP	0.047uF	10%	16V
C221	1-126-964-11	ELECT	10uF	20%	50V
C222	1-162-966-11	CERAMIC CHIP	0.0022uF	10%	50V
C223	1-126-964-11	ELECT	10uF	20%	50V
C224	1-137-194-81	FILM	0.47uF	5%	50V
C225	1-137-194-81	FILM	0.47uF	5%	50V
C226	1-126-960-11	ELECT	1uF	20%	50V
C228	1-126-964-11	ELECT	10uF	20%	50V
C229	1-110-518-11	ELECT	10uF	20%	100V
C232	1-126-960-11	ELECT	1uF	20%	50V
C233	1-136-497-81	FILM	0.1uF	5%	50V (GNZ7D)
C234	1-137-190-11	FILM	0.22uF	5%	50V (GNZ7D)
C235	1-126-964-11	ELECT	10uF	20%	50V
C236	1-130-491-00	MYLAR	0.047uF	5%	50V
C237	1-126-964-11	ELECT	10uF	20%	50V
C239	1-126-959-11	ELECT	0.47uF	20%	50V
C240	1-162-927-11	CERAMIC CHIP	100PF	5%	50V
C241	1-162-964-11	CERAMIC CHIP	0.001uF	10%	50V
C245	1-162-927-11	CERAMIC CHIP	100PF	5%	50V
C246	1-162-964-11	CERAMIC CHIP	0.001uF	10%	50V
C251	1-126-964-11	ELECT	10uF	20%	50V
C252	1-126-964-11	ELECT	10uF	20%	50V
C253	1-126-964-11	ELECT	10uF	20%	50V
C254	1-126-964-11	ELECT	10uF	20%	50V
C255	1-126-964-11	ELECT	10uF	20%	50V
C256	1-126-964-11	ELECT	10uF	20%	50V
C257	1-126-964-11	ELECT	10uF	20%	50V
C258	1-164-227-11	CERAMIC CHIP	0.022uF	10%	25V
C259	1-164-227-11	CERAMIC CHIP	0.022uF	10%	25V
C260	1-165-176-11	CERAMIC CHIP	0.047uF	10%	16V
C261	1-126-964-11	ELECT	10uF	20%	50V
C262	1-162-966-11	CERAMIC CHIP	0.0022uF	10%	50V
C263	1-126-964-11	ELECT	10uF	20%	50V
C264	1-137-194-81	FILM	0.47uF	5%	50V
C265	1-137-194-81	FILM	0.47uF	5%	50V
C266	1-126-960-11	ELECT	1uF	20%	50V
C268	1-126-964-11	ELECT	10uF	20%	50V
C269	1-110-518-11	ELECT	10uF	20%	100V
C273	1-126-964-11	ELECT	10uF	20%	50V
C274	1-126-960-11	ELECT	1uF	20%	50V
C281	1-126-964-11	ELECT	10uF	20%	50V
C282	1-104-658-11	ELECT	100uF	20%	10V
C283	1-164-156-11	CERAMIC CHIP	0.1uF		25V
C285	1-126-961-11	ELECT	2.2uF	20%	50V
C286	1-104-658-11	ELECT	100uF	20%	10V
C301	1-104-658-11	ELECT	100uF	20%	10V (GNZ8D/GNZ9D)
C302	1-164-156-11	CERAMIC CHIP	0.1uF		25V (GNZ8D/GNZ9D)
C303	1-104-658-11	ELECT	100uF	20%	10V (GNZ8D/GNZ9D)
C304	1-104-658-11	ELECT	100uF	20%	10V (GNZ8D/GNZ9D)
C306	1-164-156-11	CERAMIC CHIP	0.1uF		25V (GNZ7D)
C307	1-126-923-11	ELECT	220uF	20%	10V (GNZ7D)
C311	1-126-964-11	ELECT	10uF	20%	50V
C312	1-126-964-11	ELECT	10uF	20%	50V

Ref. No.	Part No.	Description	Remark
C313	1-162-960-11	CERAMIC CHIP 220PF 10%	50V (GNZ8D/GNZ9D)
C314	1-162-960-11	CERAMIC CHIP 220PF 10%	50V (GNZ8D/GNZ9D)
C315	1-165-176-11	CERAMIC CHIP 0.047uF 10%	16V (GNZ8D/GNZ9D)
C316	1-126-964-11	ELECT 10uF 20%	50V
C321	1-126-964-11	ELECT 10uF 20%	50V
C322	1-126-964-11	ELECT 10uF 20%	50V
C323	1-162-966-11	CERAMIC CHIP 0.0022uF 10%	50V (GNZ8D/GNZ9D)
C323	1-216-864-11	SHORT CHIP 0 (GNZ7D)	
C324	1-162-964-11	CERAMIC CHIP 0.001uF 10%	50V (GNZ8D/GNZ9D)
C325	1-126-964-11	ELECT 10uF 20%	50V
C331	1-126-964-11	ELECT 10uF 20%	50V (GNZ8D/GNZ9D)
C332	1-162-964-11	CERAMIC CHIP 0.001uF 10%	50V (GNZ8D/GNZ9D)
C333	1-126-964-11	ELECT 10uF 20%	50V (GNZ8D/GNZ9D)
C334	1-162-964-11	CERAMIC CHIP 0.001uF 10%	50V (GNZ8D/GNZ9D)
C335	1-126-964-11	ELECT 10uF 20%	50V (GNZ8D/GNZ9D)
C336	1-115-467-11	CERAMIC CHIP 0.22uF 10%	10V (GNZ9D)
C337	1-115-467-11	CERAMIC CHIP 0.22uF 10%	10V (GNZ9D)
C338	1-126-964-11	ELECT 10uF 20%	50V (GNZ8D/GNZ9D)
C341	1-126-964-11	ELECT 10uF 20%	50V (GNZ8D/GNZ9D)
C342	1-162-964-11	CERAMIC CHIP 0.001uF 10%	50V (GNZ8D/GNZ9D)
C343	1-126-964-11	ELECT 10uF 20%	50V (GNZ8D/GNZ9D)
C344	1-162-964-11	CERAMIC CHIP 0.001uF 10%	50V (GNZ8D/GNZ9D)
C345	1-126-964-11	ELECT 10uF 20%	50V (GNZ8D/GNZ9D)
C351	1-126-964-11	ELECT 10uF 20%	50V
C352	1-126-964-11	ELECT 10uF 20%	50V
C353	1-162-960-11	CERAMIC CHIP 220PF 10%	50V (GNZ8D/GNZ9D)
C354	1-162-960-11	CERAMIC CHIP 220PF 10%	50V (GNZ8D/GNZ9D)
C356	1-126-964-11	ELECT 10uF 20%	50V
C361	1-126-964-11	ELECT 10uF 20%	50V
C362	1-126-964-11	ELECT 10uF 20%	50V
C363	1-162-966-11	CERAMIC CHIP 0.0022uF 10%	50V (GNZ8D/GNZ9D)
C363	1-216-864-11	SHORT CHIP 0 (GNZ7D)	
C364	1-162-964-11	CERAMIC CHIP 0.001uF 10%	50V (GNZ8D/GNZ9D)
C365	1-126-964-11	ELECT 10uF 20%	50V
C366	1-162-927-11	CERAMIC CHIP 100PF 5%	50V (GNZ8D/GNZ9D)
C367	1-162-927-11	CERAMIC CHIP 100PF 5%	50V
C368	1-162-927-11	CERAMIC CHIP 100PF 5%	50V
C371	1-126-964-11	ELECT 10uF 20%	50V (GNZ8D/GNZ9D)

Ref. No.	Part No.	Description	Remark
C372	1-162-964-11	CERAMIC CHIP 0.001uF 10%	50V (GNZ8D/GNZ9D)
C373	1-126-964-11	ELECT 10uF 20%	50V (GNZ8D/GNZ9D)
C374	1-162-964-11	CERAMIC CHIP 0.001uF 10%	50V (GNZ8D/GNZ9D)
C375	1-126-964-11	ELECT 10uF 20%	50V (GNZ8D/GNZ9D)
C376	1-115-467-11	CERAMIC CHIP 0.22uF 10%	10V (GNZ9D)
C377	1-115-467-11	CERAMIC CHIP 0.22uF 10%	10V (GNZ9D)
C378	1-126-964-11	ELECT 10uF 20%	50V (GNZ8D/GNZ9D)
C381	1-126-964-11	ELECT 10uF 20%	50V (GNZ8D/GNZ9D)
C382	1-126-964-11	ELECT 10uF 20%	50V (GNZ8D/GNZ9D)
C383	1-126-960-11	ELECT 1uF 20%	50V (GNZ8D/GNZ9D)
C384	1-115-467-11	CERAMIC CHIP 0.22uF 10%	10V (GNZ8D/GNZ9D)
C385	1-136-497-81	FILM 0.1uF 5%	50V (GNZ8D/GNZ9D)
C386	1-126-964-11	ELECT 10uF 20%	50V (GNZ8D/GNZ9D)
C388	1-162-964-11	CERAMIC CHIP 0.001uF 10%	50V (GNZ7D/GNZ8D)
C391	1-126-964-11	ELECT 10uF 20%	50V (GNZ9D)
C392	1-115-467-11	CERAMIC CHIP 0.22uF 10%	10V (GNZ9D)
C393	1-115-467-11	CERAMIC CHIP 0.22uF 10%	10V (GNZ9D)
C394	1-104-658-11	ELECT 100uF 20%	10V (GNZ9D)
C601	1-162-968-11	CERAMIC CHIP 0.0047uF 10%	50V
C602	1-164-245-11	CERAMIC CHIP 0.015uF 10%	25V
C603	1-136-155-00	FILM 0.015uF 5%	50V
C604	1-126-965-11	ELECT 22uF 20%	50V
C605	1-106-375-12	MYLAR 0.022uF 5%	200V
C611	1-162-963-11	CERAMIC CHIP 680PF 10%	50V
C612	1-100-670-11	CERAMIC CHIP 4.7uF 20%	16V
C613	1-162-963-11	CERAMIC CHIP 680PF 10%	50V
C614	1-126-963-11	ELECT 4.7uF 20%	50V
C615	1-137-150-11	FILM 0.01uF 5%	100V
C616	1-126-947-11	ELECT 47uF 20%	35V
C617	1-162-966-11	CERAMIC CHIP 0.0022uF 10%	50V
C618	1-126-964-11	ELECT 10uF 20%	50V
C619	1-136-497-81	FILM 0.1uF 5%	50V
C620	1-126-960-11	ELECT 1uF 20%	50V
C621	1-162-927-11	CERAMIC CHIP 100PF 5%	50V
C622	1-162-927-11	CERAMIC CHIP 100PF 5%	50V
C623	1-162-927-11	CERAMIC CHIP 100PF 5%	50V
C624	1-162-927-11	CERAMIC CHIP 100PF 5%	50V
C651	1-162-963-11	CERAMIC CHIP 680PF 10%	50V
C652	1-100-670-11	CERAMIC CHIP 4.7uF 20%	16V
C653	1-162-963-11	CERAMIC CHIP 680PF 10%	50V
C654	1-126-963-11	ELECT 4.7uF 20%	50V
C655	1-137-150-11	FILM 0.01uF 5%	100V

Ref. No.	Part No.	Description	Remark
C656	1-126-947-11	ELECT 47uF 20%	35V
C657	1-162-966-11	CERAMIC CHIP 0.0022uF 10%	50V
C658	1-126-964-11	ELECT 10uF 20%	50V
C659	1-136-497-81	FILM 0.1uF 5%	50V
C721	1-107-696-11	ELECT 47uF 20%	16V
C725	1-107-696-11	ELECT 47uF 20%	16V
C726	1-107-696-11	ELECT 47uF 20%	16V
C728	1-164-156-11	CERAMIC CHIP 0.1uF	25V
C753	1-119-939-51	ELECT 6800uF 20%	35V
C763	1-111-235-61	ELECT 10000uF 20%	25V
C764	1-126-963-11	ELECT 4.7uF 20%	50V
C765	1-126-961-11	ELECT 2.2uF 20%	50V
C771	1-126-956-11	ELECT 0.1uF 20%	50V
C772	1-126-923-11	ELECT 220uF 20%	10V
C775	1-216-864-11	SHORT CHIP 0 (GNZ7D/GNZ8D)	
C776	1-216-864-11	SHORT CHIP 0	
C778	1-164-156-11	CERAMIC CHIP 0.1uF	25V (GNZ7D)
C781	1-126-963-11	ELECT 4.7uF 20%	50V (GNZ9D)
C783	1-162-974-11	CERAMIC CHIP 0.01uF	50V (GNZ9D)
C784	1-164-227-11	CERAMIC CHIP 0.022uF 10%	25V (GNZ9D)
C785	1-164-227-11	CERAMIC CHIP 0.022uF 10%	25V (GNZ9D)
C791	1-126-963-11	ELECT 4.7uF 20%	50V
C793	1-162-974-11	CERAMIC CHIP 0.01uF	50V
C794	1-164-227-11	CERAMIC CHIP 0.022uF 10%	25V
C795	1-164-227-11	CERAMIC CHIP 0.022uF 10%	25V
		< CONNECTOR >	
CN201	1-573-847-11	CONNECTOR, BOARD TO BOARD 15P	
CN202	1-573-847-11	CONNECTOR, BOARD TO BOARD 15P	
CN203	1-785-321-11	PIN, CONNECTOR (STRAIGHT) 9P	
CN301	1-779-283-11	CONNECTOR, FFC (LIF(NON-ZIF)) 15P	(GNZ8D/GNZ9D)
CN301	1-779-285-11	CONNECTOR, FFC (LIF(NON-ZIF)) 17P	(GNZ7D)
CN302	1-564-707-11	PIN, CONNECTOR (SMALL TYPE) 5P	(GNZ8D/GNZ9D)
* CN303	1-564-708-11	PIN, CONNECTOR (SMALL TYPE) 6P (GNZ9D)	
* CN601	1-564-705-11	PIN, CONNECTOR (SMALL TYPE) 3P	
* CN602	1-564-710-11	PIN, CONNECTOR (SMALL TYPE) 8P	
* CN745	1-564-517-11	PLUG, CONNECTOR 2P (GNZ9D)	
CN751	1-785-322-11	PIN, CONNECTOR (STRAIGHT) 10P	
CN752	1-784-788-11	CONNECTOR, FFC 27P	
CN753	1-568-828-11	CONNECTOR, FFC 9P	
* CN754	1-564-518-11	PLUG, CONNECTOR 3P	
* CN755	1-564-706-11	PIN, CONNECTOR (SMALL TYPE) 4P	
		< DIODE >	
D201	8-719-988-61	DIODE 1SS355TE-17	
D202	8-719-988-61	DIODE 1SS355TE-17	
D235	8-719-988-61	DIODE 1SS355TE-17	
D271	6-500-848-01	DIODE MC2840-T112-1	
D301	8-719-988-61	DIODE 1SS355TE-17 (GNZ8D/GNZ9D)	
D722	8-719-988-61	DIODE 1SS355TE-17	
D725	8-719-988-61	DIODE 1SS355TE-17	

Ref. No.	Part No.	Description	Remark
D726	8-719-988-61	DIODE 1SS355TE-17	
D727	8-719-988-61	DIODE 1SS355TE-17	
D728	8-719-988-61	DIODE 1SS355TE-17	
D751	8-719-028-23	DIODE D3SBA20-4101	
D753	6-500-335-01	DIODE MC2838-T112-1	
D761	8-719-028-23	DIODE D3SBA20-4101	
D762	8-719-988-61	DIODE 1SS355TE-17	
D763	6-500-335-01	DIODE MC2838-T112-1	
D771	6-500-522-21	DIODE 10EDB40-TB3	
D781	8-719-988-61	DIODE 1SS355TE-17 (GNZ9D)	
D783	8-719-083-63	DIODE UDZSTE-1713B (GNZ9D)	
D791	8-719-988-61	DIODE 1SS355TE-17	
D792	8-719-069-56	DIODE UDZSTE-176.2B	
D793	8-719-069-56	DIODE UDZSTE-176.2B	
		< GROUND TERMINAL >	
EPT751	1-537-771-21	TERMINAL BOARD, GROUND	
		< FERRITE BEAD >	
FB301	1-216-295-11	SHORT CHIP 0 (GNZ7D:EXCEPT TH)	
FB301	1-500-445-21	FERRITE, EMI (SMD) (2012) (GNZ7D:TH)	
		< IC >	
IC201	6-705-667-01	IC M61537FP-RF0G	
IC203	6-703-610-01	IC RT8H015C-T112-1	
IC301	6-703-651-11	IC M61530FP-D60G (GNZ8D/GNZ9D)	
IC303	8-759-710-97	IC NJM4565M-D (GNZ9D)	
IC305	8-749-019-25	IC TOTX141 (DVD DIGITAL OUT) (GNZ7D)	
IC771	6-703-547-01	IC TA7805LS	
		< JACK >	
J201	1-774-785-11	JACK, PIN 1P (SUB WOOFER OUT)	(GNZ7D/GNZ8D)
J202	1-816-918-11	JACK, PIN 4P (TV/SAT)	
		< JUMPER RESISTOR >	
JR211	1-216-837-11	METAL CHIP 22K 5%	1/10W
JR221	1-216-864-11	SHORT CHIP 0	
JR251	1-216-837-11	METAL CHIP 22K 5%	1/10W
JR261	1-216-864-11	SHORT CHIP 0	
JR304	1-216-864-11	SHORT CHIP 0	
JR305	1-216-864-11	SHORT CHIP 0	
JR382	1-216-864-11	SHORT CHIP 0 (GNZ7D)	
JW291	1-216-864-11	SHORT CHIP 0	
JW293	1-216-864-11	SHORT CHIP 0	
JW415	1-216-864-11	SHORT CHIP 0 (GNZ7D)	
JW416	1-216-864-11	SHORT CHIP 0 (GNZ7D)	
JW417	1-216-864-11	SHORT CHIP 0 (GNZ7D)	
		< COIL >	
L301	1-412-064-11	INDUCTOR 100uH (GNZ8D/GNZ9D)	
L302	1-408-619-31	INDUCTOR 220uH (GNZ7D)	
		< TRANSISTOR >	
Q212	8-729-905-35	TRANSISTOR 2SC4081-R	
Q252	8-729-905-35	TRANSISTOR 2SC4081-R	

Ref. No.	Part No.	Description			Remark
Q271	8-729-905-35	TRANSISTOR	2SC4081-R		
Q272	8-729-905-35	TRANSISTOR	2SC4081-R		
Q281	8-729-905-35	TRANSISTOR	2SC4081-R		
Q282	8-729-905-35	TRANSISTOR	2SC4081-R		
Q283	8-729-905-35	TRANSISTOR	2SC4081-R		
Q601	8-729-011-92	TRANSISTOR	2SC2001TP-K1K2		
Q602	8-729-026-53	TRANSISTOR	2SA1576A-T106-QR		
Q603	8-729-905-35	TRANSISTOR	2SC4081-R		
Q621	8-729-021-15	TRANSISTOR	2SD2351T106W		
Q622	8-729-021-15	TRANSISTOR	2SD2351T106W		
Q623	8-729-039-18	TRANSISTOR	BCR183W-GEG-E6327		
Q624	8-729-039-14	TRANSISTOR	BCR133W-GEG-E6327		
Q625	8-729-021-15	TRANSISTOR	2SD2351T106W		
Q626	8-729-021-15	TRANSISTOR	2SD2351T106W		
Q627	8-729-021-15	TRANSISTOR	2SD2351T106W		
Q628	8-729-021-15	TRANSISTOR	2SD2351T106W		
Q629	8-729-026-53	TRANSISTOR	2SA1576A-T106-QR		
Q630	8-729-039-14	TRANSISTOR	BCR133W-GEG-E6327		
Q631	8-729-039-14	TRANSISTOR	BCR133W-GEG-E6327		
Q701	8-729-021-15	TRANSISTOR	2SD2351T106W		
Q702	8-729-021-15	TRANSISTOR	2SD2351T106W		
Q703	8-729-021-15	TRANSISTOR	2SD2351T106W		
Q704	8-729-021-15	TRANSISTOR	2SD2351T106W		
Q705	8-729-021-15	TRANSISTOR	2SD2351T106W		
Q706	8-729-021-15	TRANSISTOR	2SD2351T106W		
Q711	8-729-021-15	TRANSISTOR	2SD2351T106W (GNZ8D/GNZ9D)		
Q712	8-729-021-15	TRANSISTOR	2SD2351T106W (GNZ8D/GNZ9D)		
Q713	8-729-021-15	TRANSISTOR	2SD2351T106W (GNZ8D/GNZ9D)		
Q714	8-729-021-15	TRANSISTOR	2SD2351T106W (GNZ9D)		
Q721	8-729-039-18	TRANSISTOR	BCR183W-GEG-E6327		
Q722	8-729-039-14	TRANSISTOR	BCR133W-GEG-E6327		
Q723	8-729-905-35	TRANSISTOR	2SC4081-R		
Q724	8-729-039-18	TRANSISTOR	BCR183W-GEG-E6327		
Q727	8-729-039-18	TRANSISTOR	BCR183W-GEG-E6327		
Q728	8-729-039-18	TRANSISTOR	BCR183W-GEG-E6327		
Q729	8-729-039-18	TRANSISTOR	BCR183W-GEG-E6327		
Q745	8-729-039-18	TRANSISTOR	BCR183W-GEG-E6327 (GNZ9D)		
Q746	8-729-039-14	TRANSISTOR	BCR133W-GEG-E6327 (GNZ9D)		
Q771	6-550-185-01	TRANSISTOR	RT1P137P-TP-1		
Q772	8-729-039-14	TRANSISTOR	BCR133W-GEG-E6327		
Q782	8-729-905-35	TRANSISTOR	2SC4081-R (GNZ9D)		
Q783	8-729-905-35	TRANSISTOR	2SC4081-R (GNZ9D)		
Q784	8-729-026-68	TRANSISTOR	2SD2525(TP) (GNZ9D)		
Q791	8-729-039-14	TRANSISTOR	BCR133W-GEG-E6327		
Q792	8-729-905-35	TRANSISTOR	2SC4081-R		
Q793	8-729-905-35	TRANSISTOR	2SC4081-R		
Q794	8-729-026-68	TRANSISTOR	2SD2525(TP)		
Q795	8-729-039-14	TRANSISTOR	BCR133W-GEG-E6327		
Q796	8-729-021-15	TRANSISTOR	2SD2351T106W (GNZ7D/GNZ8D)		
Q797	8-729-905-35	TRANSISTOR	2SC4081-R		
		< RESISTOR >			
R201	1-216-821-11	METAL CHIP	1K	5%	1/10W
R202	1-216-821-11	METAL CHIP	1K	5%	1/10W
R211	1-216-864-11	SHORT CHIP	0		
R212	1-216-829-11	METAL CHIP	4.7K	5%	1/10W
R213	1-216-833-11	METAL CHIP	10K	5%	1/10W

Ref. No.	Part No.	Description			Remark
R214	1-216-833-11	METAL CHIP	10K	5%	1/10W
R215	1-216-821-11	METAL CHIP	1K	5%	1/10W
R216	1-216-841-11	METAL CHIP	47K	5%	1/10W
R221	1-216-829-11	METAL CHIP	4.7K	5%	1/10W
R222	1-216-829-11	METAL CHIP	4.7K	5%	1/10W
⚠R223	1-215-890-11	METAL OXIDE	470	5%	2W F
R231	1-216-864-11	SHORT CHIP	0		
R232	1-216-833-11	METAL CHIP	10K	5%	1/10W
R233	1-216-821-11	METAL CHIP	1K	5%	1/10W
R234	1-216-821-11	METAL CHIP	1K	5%	1/10W
R235	1-216-837-11	METAL CHIP	22K	5%	1/10W
R236	1-216-837-11	METAL CHIP	22K	5%	1/10W
R237	1-216-833-11	METAL CHIP	10K	5%	1/10W
R238	1-216-845-11	METAL CHIP	100K	5%	1/10W
R239	1-216-857-11	METAL CHIP	1M	5%	1/10W
R240	1-216-821-11	METAL CHIP	1K	5%	1/10W
R241	1-216-864-11	SHORT CHIP	0		
R242	1-216-845-11	METAL CHIP	100K	5%	1/10W
R243	1-216-821-11	METAL CHIP	1K	5%	1/10W
R244	1-216-845-11	METAL CHIP	100K	5%	1/10W
R245	1-216-821-11	METAL CHIP	1K	5%	1/10W
R246	1-216-864-11	SHORT CHIP	0		
R247	1-216-845-11	METAL CHIP	100K	5%	1/10W
R248	1-216-821-11	METAL CHIP	1K	5%	1/10W
R249	1-216-845-11	METAL CHIP	100K	5%	1/10W
R251	1-216-864-11	SHORT CHIP	0		
R252	1-216-829-11	METAL CHIP	4.7K	5%	1/10W
R253	1-216-833-11	METAL CHIP	10K	5%	1/10W
R254	1-216-833-11	METAL CHIP	10K	5%	1/10W
R255	1-216-821-11	METAL CHIP	1K	5%	1/10W
R256	1-216-841-11	METAL CHIP	47K	5%	1/10W
R261	1-216-829-11	METAL CHIP	4.7K	5%	1/10W
R262	1-216-829-11	METAL CHIP	4.7K	5%	1/10W
⚠R263	1-215-890-11	METAL OXIDE	470	5%	2W F
R271	1-216-821-11	METAL CHIP	1K	5%	1/10W
R272	1-216-827-11	METAL CHIP	3.3K	5%	1/10W
R273	1-216-837-11	METAL CHIP	22K	5%	1/10W
R274	1-216-833-11	METAL CHIP	10K	5%	1/10W
R275	1-216-845-11	METAL CHIP	100K	5%	1/10W
R276	1-216-833-11	METAL CHIP	10K	5%	1/10W
R277	1-216-841-11	METAL CHIP	47K	5%	1/10W
R282	1-216-829-11	METAL CHIP	4.7K	5%	1/10W
R301	1-216-809-11	METAL CHIP	100	5%	1/10W (GNZ8D/GNZ9D)
R302	1-216-809-11	METAL CHIP	100	5%	1/10W (GNZ8D/GNZ9D)
R311	1-216-864-11	SHORT CHIP	0		
R312	1-216-845-11	METAL CHIP	100K	5%	1/10W
R313	1-216-817-11	METAL CHIP	470	5%	1/10W (GNZ8D/GNZ9D)
R313	1-216-864-11	SHORT CHIP	0 (GNZ7D)		
R314	1-216-841-11	METAL CHIP	47K	5%	1/10W (GNZ8D/GNZ9D)
R315	1-216-833-11	METAL CHIP	10K	5%	1/10W (GNZ8D/GNZ9D)
R315	1-216-864-11	SHORT CHIP	0 (GNZ7D)		
R316	1-216-857-11	METAL CHIP	1M	5%	1/10W (GNZ8D/GNZ9D)
R317	1-216-864-11	SHORT CHIP	0		

Ref. No.	Part No.	Description			Remark
R318	1-216-857-11	METAL CHIP	1M	5%	1/10W (GNZ8D/GNZ9D)
R321	1-216-864-11	SHORT CHIP	0		
R322	1-216-845-11	METAL CHIP	100K	5%	1/10W
R323	1-216-825-11	METAL CHIP	2.2K	5%	1/10W
R324	1-216-841-11	METAL CHIP	47K	5%	1/10W (GNZ8D/GNZ9D)
R325	1-216-825-11	METAL CHIP	2.2K	5%	1/10W (GNZ8D/GNZ9D)
R331	1-216-825-11	METAL CHIP	2.2K	5%	1/10W (GNZ8D/GNZ9D)
R332	1-216-829-11	METAL CHIP	4.7K	5%	1/10W (GNZ8D/GNZ9D)
R333	1-216-833-11	METAL CHIP	10K	5%	1/10W (GNZ8D/GNZ9D)
R334	1-216-841-11	METAL CHIP	47K	5%	1/10W (GNZ8D/GNZ9D)
R335	1-216-825-11	METAL CHIP	2.2K	5%	1/10W (GNZ9D)
R337	1-216-825-11	METAL CHIP	2.2K	5%	1/10W (GNZ8D/GNZ9D)
R338	1-216-845-11	METAL CHIP	100K	5%	1/10W (GNZ8D/GNZ9D)
R341	1-216-825-11	METAL CHIP	2.2K	5%	1/10W (GNZ8D/GNZ9D)
R342	1-216-829-11	METAL CHIP	4.7K	5%	1/10W (GNZ8D/GNZ9D)
R343	1-216-833-11	METAL CHIP	10K	5%	1/10W (GNZ8D/GNZ9D)
R347	1-216-825-11	METAL CHIP	2.2K	5%	1/10W (GNZ8D/GNZ9D)
R348	1-216-845-11	METAL CHIP	100K	5%	1/10W (GNZ8D/GNZ9D)
R351	1-216-864-11	SHORT CHIP	0		
R352	1-216-845-11	METAL CHIP	100K	5%	1/10W
R353	1-216-817-11	METAL CHIP	470	5%	1/10W (GNZ8D/GNZ9D)
R353	1-216-864-11	SHORT CHIP	0 (GNZ7D)		
R354	1-216-841-11	METAL CHIP	47K	5%	1/10W (GNZ8D/GNZ9D)
R355	1-216-833-11	METAL CHIP	10K	5%	1/10W (GNZ8D/GNZ9D)
R355	1-216-864-11	SHORT CHIP	0 (GNZ7D)		
R357	1-216-864-11	SHORT CHIP	0		
R361	1-216-864-11	SHORT CHIP	0		
R362	1-216-845-11	METAL CHIP	100K	5%	1/10W
R363	1-216-825-11	METAL CHIP	2.2K	5%	1/10W
R364	1-216-841-11	METAL CHIP	47K	5%	1/10W (GNZ8D/GNZ9D)
R365	1-216-825-11	METAL CHIP	2.2K	5%	1/10W (GNZ8D/GNZ9D)
R371	1-216-825-11	METAL CHIP	2.2K	5%	1/10W (GNZ8D/GNZ9D)
R372	1-216-829-11	METAL CHIP	4.7K	5%	1/10W (GNZ8D/GNZ9D)
R373	1-216-833-11	METAL CHIP	10K	5%	1/10W (GNZ8D/GNZ9D)
R374	1-216-841-11	METAL CHIP	47K	5%	1/10W (GNZ8D/GNZ9D)
R375	1-216-825-11	METAL CHIP	2.2K	5%	1/10W (GNZ9D)

Ref. No.	Part No.	Description			Remark
R377	1-216-825-11	METAL CHIP	2.2K	5%	1/10W (GNZ8D/GNZ9D)
R378	1-216-845-11	METAL CHIP	100K	5%	1/10W (GNZ8D/GNZ9D)
R381	1-216-841-11	METAL CHIP	47K	5%	1/10W (GNZ8D/GNZ9D)
R382	1-216-821-11	METAL CHIP	1K	5%	1/10W (GNZ8D)
R382	1-218-867-11	METAL CHIP	6.8K	0.5%	1/10W (GNZ9D)
R383	1-216-821-11	METAL CHIP	1K	5%	1/10W (GNZ8D)
R383	1-218-867-11	METAL CHIP	6.8K	0.5%	1/10W (GNZ9D)
R384	1-216-825-11	METAL CHIP	2.2K	5%	1/10W (GNZ7D/GNZ8D)
R385	1-216-845-11	METAL CHIP	100K	5%	1/10W (GNZ7D/GNZ8D)
R387	1-216-825-11	METAL CHIP	2.2K	5%	1/10W (GNZ9D)
R391	1-216-841-11	METAL CHIP	47K	5%	1/10W (GNZ9D)
R392	1-216-833-11	METAL CHIP	10K	5%	1/10W (GNZ9D)
R393	1-216-837-11	METAL CHIP	22K	5%	1/10W (GNZ9D)
R394	1-216-823-11	METAL CHIP	1.5K	5%	1/10W (GNZ9D)
R395	1-216-833-11	METAL CHIP	10K	5%	1/10W (GNZ9D)
R396	1-216-821-11	METAL CHIP	1K	5%	1/10W (GNZ7D/GNZ8D)
R397	1-216-841-11	METAL CHIP	47K	5%	1/10W (GNZ9D)
R601	1-216-838-11	METAL CHIP	27K	5%	1/10W
R602	1-216-295-11	SHORT CHIP	0		
R603	1-216-833-11	METAL CHIP	10K	5%	1/10W
R604	1-216-833-11	METAL CHIP	10K	5%	1/10W
R611	1-216-821-11	METAL CHIP	1K	5%	1/10W
R612	1-216-821-11	METAL CHIP	1K	5%	1/10W
R613	1-216-851-11	METAL CHIP	330K	5%	1/10W
R614	1-216-835-11	METAL CHIP	15K	5%	1/10W
R615	1-216-812-11	METAL CHIP	180	5%	1/10W
R616	1-216-834-11	METAL CHIP	12K	5%	1/10W
R617	1-216-835-11	METAL CHIP	15K	5%	1/10W
R618	1-216-823-11	METAL CHIP	1.5K	5%	1/10W
R620	1-216-857-11	METAL CHIP	1M	5%	1/10W
R621	1-216-821-11	METAL CHIP	1K	5%	1/10W
R622	1-216-821-11	METAL CHIP	1K	5%	1/10W
R623	1-216-821-11	METAL CHIP	1K	5%	1/10W
R624	1-216-821-11	METAL CHIP	1K	5%	1/10W
R625	1-216-821-11	METAL CHIP	1K	5%	1/10W
R626	1-216-821-11	METAL CHIP	1K	5%	1/10W
R627	1-216-833-11	METAL CHIP	10K	5%	1/10W
R628	1-216-833-11	METAL CHIP	10K	5%	1/10W
R629	1-216-833-11	METAL CHIP	10K	5%	1/10W
R632	1-216-829-11	METAL CHIP	4.7K	5%	1/10W
R639	1-216-829-11	METAL CHIP	4.7K	5%	1/10W
R651	1-216-821-11	METAL CHIP	1K	5%	1/10W
R652	1-216-821-11	METAL CHIP	1K	5%	1/10W

Ref. No.	Part No.	Description			Remark
R653	1-216-851-11	METAL CHIP	330K	5%	1/10W
R654	1-216-835-11	METAL CHIP	15K	5%	1/10W
R655	1-216-812-11	METAL CHIP	180	5%	1/10W
R656	1-216-834-11	METAL CHIP	12K	5%	1/10W
R657	1-216-835-11	METAL CHIP	15K	5%	1/10W
R658	1-216-823-11	METAL CHIP	1.5K	5%	1/10W
R659	1-216-797-11	METAL CHIP	10	5%	1/10W
R701	1-216-825-11	METAL CHIP	2.2K	5%	1/10W
R702	1-216-825-11	METAL CHIP	2.2K	5%	1/10W
R703	1-216-821-11	METAL CHIP	1K	5%	1/10W
R704	1-216-821-11	METAL CHIP	1K	5%	1/10W
R705	1-216-821-11	METAL CHIP	1K	5%	1/10W
R706	1-216-821-11	METAL CHIP	1K	5%	1/10W
R711	1-216-825-11	METAL CHIP	2.2K	5%	1/10W (GNZ8D/GNZ9D)
R712	1-216-825-11	METAL CHIP	2.2K	5%	1/10W (GNZ8D/GNZ9D)
R713	1-216-825-11	METAL CHIP	2.2K	5%	1/10W (GNZ8D/GNZ9D)
R714	1-216-825-11	METAL CHIP	2.2K	5%	1/10W (GNZ9D)
R715	1-216-821-11	METAL CHIP	1K	5%	1/10W (E2)
R715	1-216-864-11	SHORT CHIP	0 (EXCEPT E2)		
R716	1-216-837-11	METAL CHIP	22K	5%	1/10W (E2)
R717	1-216-821-11	METAL CHIP	1K	5%	1/10W (E2)
R717	1-216-864-11	SHORT CHIP	0 (EXCEPT E2)		
R718	1-216-837-11	METAL CHIP	22K	5%	1/10W (E2)
R721	1-216-821-11	METAL CHIP	1K	5%	1/10W
R723	1-216-821-11	METAL CHIP	1K	5%	1/10W
R724	1-216-833-11	METAL CHIP	10K	5%	1/10W
R725	1-216-833-11	METAL CHIP	10K	5%	1/10W
R726	1-216-821-11	METAL CHIP	1K	5%	1/10W
R727	1-216-841-11	METAL CHIP	47K	5%	1/10W
R734	1-216-833-11	METAL CHIP	10K	5%	1/10W
R735	1-216-864-11	SHORT CHIP	0		
R736	1-216-841-11	METAL CHIP	47K	5%	1/10W
R737	1-216-833-11	METAL CHIP	10K	5%	1/10W
R738	1-216-864-11	SHORT CHIP	0		
R739	1-216-841-11	METAL CHIP	47K	5%	1/10W
R740	1-216-833-11	METAL CHIP	10K	5%	1/10W
R741	1-216-864-11	SHORT CHIP	0		
R742	1-216-841-11	METAL CHIP	47K	5%	1/10W
R745	1-216-821-11	METAL CHIP	1K	5%	1/10W (GNZ9D)
R751	1-216-809-11	METAL CHIP	100	5%	1/10W
R752	1-216-829-11	METAL CHIP	4.7K	5%	1/10W
R753	1-216-829-11	METAL CHIP	4.7K	5%	1/10W
R762	1-216-837-11	METAL CHIP	22K	5%	1/10W
R763	1-216-837-11	METAL CHIP	22K	5%	1/10W
R764	1-218-867-11	METAL CHIP	6.8K	0.5%	1/10W
R765	1-216-809-11	METAL CHIP	100	5%	1/10W
R767	1-216-809-11	METAL CHIP	100	5%	1/10W
R768	1-216-809-11	METAL CHIP	100	5%	1/10W
R769	1-216-809-11	METAL CHIP	100	5%	1/10W
R781	1-216-829-11	METAL CHIP	4.7K	5%	1/10W (GNZ9D)
R782	1-216-841-11	METAL CHIP	47K	5%	1/10W (GNZ9D)
R783	1-216-849-11	METAL CHIP	220K	5%	1/10W (GNZ9D)
R784	1-216-837-11	METAL CHIP	22K	5%	1/10W (GNZ9D)
R785	1-216-837-11	METAL CHIP	22K	5%	1/10W (GNZ9D)
R790	1-216-809-11	METAL CHIP	100	5%	1/10W
R791	1-216-829-11	METAL CHIP	4.7K	5%	1/10W
R792	1-216-841-11	METAL CHIP	47K	5%	1/10W
R793	1-216-849-11	METAL CHIP	220K	5%	1/10W
R794	1-216-837-11	METAL CHIP	22K	5%	1/10W
R795	1-216-837-11	METAL CHIP	22K	5%	1/10W
R796	1-216-833-11	METAL CHIP	10K	5%	1/10W
R798	1-216-809-11	METAL CHIP	100	5%	1/10W
R799	1-216-833-11	METAL CHIP	10K	5%	1/10W
		< TRANSFORMER >			
T601	1-437-220-11	TRANSFORMER, BIAS OSCILLATION			

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Ref. No.	Part No.	Description			Remark
	A-1095-784-A	DMB10 BOARD, COMPLETE (GNZ9D:SP,PH)			
	A-1095-785-A	DMB10 BOARD, COMPLETE (GNZ9D:E3,E12,E13,E15,AUS,EA)			
	A-1095-786-A	DMB10 BOARD, COMPLETE (GNZ9D:E2,E51,MX)			
	A-1095-787-A	DMB10 BOARD, COMPLETE (GNZ8D:SP,PH)			
	A-1095-788-A	DMB10 BOARD, COMPLETE (GNZ8D:E3,E12,E13,E15,EA)			
	A-1095-789-A	DMB10 BOARD, COMPLETE (GNZ7D:SP,PH)			
	A-1095-790-A	DMB10 BOARD, COMPLETE (GNZ7D:E3,E12,E13,E15,EA)			
	A-1095-791-A	DMB10 BOARD, COMPLETE (GNZ7D:E2)			
	A-1111-492-A	DMB10 BOARD, COMPLETE (GNZ9D:TH)			
	A-1111-493-A	DMB10 BOARD, COMPLETE (GNZ8D:TH)			
	A-1111-494-A	DMB10 BOARD, COMPLETE (GNZ7D:TH)			
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		< CAPACITOR >			
C101	1-162-970-11	CERAMIC CHIP	0.01uF	10%	25V
C102	1-162-970-11	CERAMIC CHIP	0.01uF	10%	25V
C105	1-126-205-11	ELECT CHIP	47uF	20%	6.3V
C106	1-162-970-11	CERAMIC CHIP	0.01uF	10%	25V
C108	1-162-964-11	CERAMIC CHIP	0.001uF	10%	50V
C109	1-162-964-11	CERAMIC CHIP	0.001uF	10%	50V
C112	1-126-205-11	ELECT CHIP	47uF	20%	6.3V
C113	1-162-970-11	CERAMIC CHIP	0.01uF	10%	25V
C114	1-107-826-11	CERAMIC CHIP	0.1uF	10%	16V
C115	1-107-826-11	CERAMIC CHIP	0.1uF	10%	16V
C116	1-107-826-11	CERAMIC CHIP	0.1uF	10%	16V
C117	1-124-779-00	ELECT CHIP	10uF	20%	16V
C118	1-124-779-00	ELECT CHIP	10uF	20%	16V
C119	1-124-779-00	ELECT CHIP	10uF	20%	16V
C120	1-165-908-11	CERAMIC CHIP	1uF	10%	10V
C121	1-165-908-11	CERAMIC CHIP	1uF	10%	10V
C122	1-165-908-11	CERAMIC CHIP	1uF	10%	10V
C123	1-165-908-11	CERAMIC CHIP	1uF	10%	10V
C124	1-165-908-11	CERAMIC CHIP	1uF	10%	10V

Ref. No.	Part No.	Description			Remark
C125	1-107-826-11	CERAMIC CHIP	0.1uF	10%	16V
C126	1-107-826-11	CERAMIC CHIP	0.1uF	10%	16V
C127	1-162-970-11	CERAMIC CHIP	0.01uF	10%	25V
C128	1-162-965-11	CERAMIC CHIP	0.0015uF	10%	50V
C129	1-124-779-00	ELECT CHIP	10uF	20%	16V
C130	1-107-826-11	CERAMIC CHIP	0.1uF	10%	16V
C131	1-125-838-11	CERAMIC CHIP	2.2uF	10%	6.3V
C132	1-107-826-11	CERAMIC CHIP	0.1uF	10%	16V
C133	1-107-826-11	CERAMIC CHIP	0.1uF	10%	16V
C135	1-164-677-11	CERAMIC CHIP	0.033uF	10%	16V
C136	1-162-970-11	CERAMIC CHIP	0.01uF	10%	25V
C137	1-107-826-11	CERAMIC CHIP	0.1uF	10%	16V
C138	1-162-964-11	CERAMIC CHIP	0.001uF	10%	50V
C139	1-162-919-11	CERAMIC CHIP	22PF	5%	50V
C140	1-107-826-11	CERAMIC CHIP	0.1uF	10%	16V
C141	1-107-826-11	CERAMIC CHIP	0.1uF	10%	16V
C142	1-107-826-11	CERAMIC CHIP	0.1uF	10%	16V
C143	1-107-826-11	CERAMIC CHIP	0.1uF	10%	16V
C144	1-162-970-11	CERAMIC CHIP	0.01uF	10%	25V
C145	1-165-908-11	CERAMIC CHIP	1uF	10%	10V
C146	1-107-826-11	CERAMIC CHIP	0.1uF	10%	16V
C147	1-165-176-11	CERAMIC CHIP	0.047uF	10%	16V
C148	1-165-176-11	CERAMIC CHIP	0.047uF	10%	16V
C149	1-107-826-11	CERAMIC CHIP	0.1uF	10%	16V
C150	1-124-779-00	ELECT CHIP	10uF	20%	16V
C151	1-115-416-11	CERAMIC CHIP	0.001uF	5%	25V
C152	1-162-916-11	CERAMIC CHIP	12PF	5%	50V
C153	1-162-916-11	CERAMIC CHIP	12PF	5%	50V
C154	1-107-826-11	CERAMIC CHIP	0.1uF	10%	16V
C155	1-162-970-11	CERAMIC CHIP	0.01uF	10%	25V
C156	1-162-970-11	CERAMIC CHIP	0.01uF	10%	25V
C158	1-162-970-11	CERAMIC CHIP	0.01uF	10%	25V
C159	1-162-970-11	CERAMIC CHIP	0.01uF	10%	25V
C160	1-162-970-11	CERAMIC CHIP	0.01uF	10%	25V
C161	1-162-970-11	CERAMIC CHIP	0.01uF	10%	25V
C162	1-162-970-11	CERAMIC CHIP	0.01uF	10%	25V
C163	1-162-970-11	CERAMIC CHIP	0.01uF	10%	25V
C164	1-162-970-11	CERAMIC CHIP	0.01uF	10%	25V
C167	1-162-970-11	CERAMIC CHIP	0.01uF	10%	25V
C170	1-162-970-11	CERAMIC CHIP	0.01uF	10%	25V
C171	1-162-970-11	CERAMIC CHIP	0.01uF	10%	25V
C172	1-162-970-11	CERAMIC CHIP	0.01uF	10%	25V
C173	1-162-970-11	CERAMIC CHIP	0.01uF	10%	25V
C174	1-162-970-11	CERAMIC CHIP	0.01uF	10%	25V
C175	1-162-970-11	CERAMIC CHIP	0.01uF	10%	25V
C176	1-162-970-11	CERAMIC CHIP	0.01uF	10%	25V
C177	1-126-205-11	ELECT CHIP	47uF	20%	6.3V
C178	1-126-208-21	ELECT CHIP	47uF	20%	4V
C179	1-107-826-11	CERAMIC CHIP	0.1uF	10%	16V
C180	1-107-826-11	CERAMIC CHIP	0.1uF	10%	16V
C181	1-107-826-11	CERAMIC CHIP	0.1uF	10%	16V
C182	1-127-715-11	CERAMIC CHIP	0.22uF	10%	16V
C184	1-162-970-11	CERAMIC CHIP	0.01uF	10%	25V
C187	1-126-208-21	ELECT CHIP	47uF	20%	4V
C188	1-127-715-11	CERAMIC CHIP	0.22uF	10%	16V
C189	1-128-934-11	CERAMIC CHIP	0.33uF	20%	10V
C190	1-126-205-11	ELECT CHIP	47uF	20%	6.3V
C191	1-107-826-11	CERAMIC CHIP	0.1uF	10%	16V
C192	1-162-970-11	CERAMIC CHIP	0.01uF	10%	25V
C193	1-127-715-11	CERAMIC CHIP	0.22uF	10%	16V
C195	1-127-715-11	CERAMIC CHIP	0.22uF	10%	16V
C196	1-162-968-11	CERAMIC CHIP	0.0047uF	10%	50V
C203	1-162-970-11	CERAMIC CHIP	0.01uF	10%	25V
C205	1-164-230-11	CERAMIC CHIP	220PF	5%	50V
C206	1-164-230-11	CERAMIC CHIP	220PF	5%	50V
C208	1-162-970-11	CERAMIC CHIP	0.01uF	10%	25V
C209	1-164-677-11	CERAMIC CHIP	0.033uF	10%	16V
C210	1-162-970-11	CERAMIC CHIP	0.01uF	10%	25V
C211	1-164-677-11	CERAMIC CHIP	0.033uF	10%	16V
C212	1-162-970-11	CERAMIC CHIP	0.01uF	10%	25V
C213	1-162-970-11	CERAMIC CHIP	0.01uF	10%	25V
C214	1-162-964-11	CERAMIC CHIP	0.001uF	10%	50V
C215	1-162-970-11	CERAMIC CHIP	0.01uF	10%	25V
C217	1-126-204-11	ELECT CHIP	47uF	20%	16V
C218	1-124-779-00	ELECT CHIP	10uF	20%	16V
C219	1-162-970-11	CERAMIC CHIP	0.01uF	10%	25V
C220	1-124-779-00	ELECT CHIP	10uF	20%	16V
C221	1-107-826-11	CERAMIC CHIP	0.1uF	10%	16V
C222	1-107-826-11	CERAMIC CHIP	0.1uF	10%	16V
C224	1-162-970-11	CERAMIC CHIP	0.01uF	10%	25V
C233	1-162-968-11	CERAMIC CHIP	0.0047uF	10%	50V
C301	1-162-970-11	CERAMIC CHIP	0.01uF	10%	25V
C302	1-125-891-11	CERAMIC CHIP	0.47uF	10%	10V
C305	1-125-891-11	CERAMIC CHIP	0.47uF	10%	10V
C306	1-126-206-11	ELECT CHIP	100uF	20%	6.3V
C307	1-126-206-11	ELECT CHIP	100uF	20%	6.3V
C3701	1-107-826-11	CERAMIC CHIP	0.1uF	10%	16V
C3702	1-107-826-11	CERAMIC CHIP	0.1uF	10%	16V
C3703	1-107-826-11	CERAMIC CHIP	0.1uF	10%	16V (GNZ8D/GNZ9D)
C3704	1-107-826-11	CERAMIC CHIP	0.1uF	10%	16V (GNZ8D/GNZ9D)
C3705	1-107-826-11	CERAMIC CHIP	0.1uF	10%	16V (GNZ8D/GNZ9D)
C3706	1-107-826-11	CERAMIC CHIP	0.1uF	10%	16V (GNZ8D/GNZ9D)
C3707	1-107-826-11	CERAMIC CHIP	0.1uF	10%	16V
C3708	1-107-826-11	CERAMIC CHIP	0.1uF	10%	16V
C3711	1-162-977-11	CERAMIC CHIP	0.0018uF	10%	50V
C3712	1-162-967-11	CERAMIC CHIP	0.0033uF	10%	50V
C3713	1-162-964-11	CERAMIC CHIP	0.001uF	10%	50V
C3714	1-162-964-11	CERAMIC CHIP	0.001uF	10%	50V
C3721	1-162-977-11	CERAMIC CHIP	0.0018uF	10%	50V
C3722	1-162-967-11	CERAMIC CHIP	0.0033uF	10%	50V
C3723	1-162-964-11	CERAMIC CHIP	0.001uF	10%	50V
C3724	1-162-964-11	CERAMIC CHIP	0.001uF	10%	50V
C3731	1-162-977-11	CERAMIC CHIP	0.0018uF	10%	50V (GNZ8D/GNZ9D)
C3732	1-162-967-11	CERAMIC CHIP	0.0033uF	10%	50V (GNZ8D/GNZ9D)
C3733	1-162-964-11	CERAMIC CHIP	0.001uF	10%	50V (GNZ8D/GNZ9D)
C3734	1-162-964-11	CERAMIC CHIP	0.001uF	10%	50V (GNZ8D/GNZ9D)
C3741	1-162-977-11	CERAMIC CHIP	0.0018uF	10%	50V (GNZ8D/GNZ9D)

Ref. No.	Part No.	Description			Remark
C3742	1-162-967-11	CERAMIC CHIP	0.0033uF	10%	50V (GNZ8D/GNZ9D)
C3743	1-162-964-11	CERAMIC CHIP	0.001uF	10%	50V (GNZ8D/GNZ9D)
C3744	1-162-964-11	CERAMIC CHIP	0.001uF	10%	50V (GNZ8D/GNZ9D)
C3751	1-162-977-11	CERAMIC CHIP	0.0018uF	10%	50V (GNZ8D/GNZ9D)
C3752	1-162-967-11	CERAMIC CHIP	0.0033uF	10%	50V (GNZ8D/GNZ9D)
C3753	1-162-964-11	CERAMIC CHIP	0.001uF	10%	50V (GNZ8D/GNZ9D)
C3754	1-162-964-11	CERAMIC CHIP	0.001uF	10%	50V (GNZ8D/GNZ9D)
C3761	1-162-977-11	CERAMIC CHIP	0.0018uF	10%	50V (GNZ8D/GNZ9D)
C3762	1-162-967-11	CERAMIC CHIP	0.0033uF	10%	50V (GNZ8D/GNZ9D)
C3763	1-162-964-11	CERAMIC CHIP	0.001uF	10%	50V (GNZ8D/GNZ9D)
C3764	1-162-964-11	CERAMIC CHIP	0.001uF	10%	50V (GNZ8D/GNZ9D)
C3771	1-162-977-11	CERAMIC CHIP	0.0018uF	10%	50V
C3772	1-162-967-11	CERAMIC CHIP	0.0033uF	10%	50V
C3773	1-162-964-11	CERAMIC CHIP	0.001uF	10%	50V
C3774	1-162-964-11	CERAMIC CHIP	0.001uF	10%	50V
C3781	1-162-977-11	CERAMIC CHIP	0.0018uF	10%	50V
C3782	1-162-967-11	CERAMIC CHIP	0.0033uF	10%	50V
C3783	1-162-964-11	CERAMIC CHIP	0.001uF	10%	50V
C3784	1-162-964-11	CERAMIC CHIP	0.001uF	10%	50V
C3801	1-126-206-11	ELECT CHIP	100uF	20%	6.3V
C3802	1-117-370-11	CERAMIC CHIP	10uF		10V
C3803	1-126-205-11	ELECT CHIP	47uF	20%	6.3V
C3804	1-126-205-11	ELECT CHIP	47uF	20%	6.3V
C3805	1-126-208-21	ELECT CHIP	47uF	20%	4V
C402	1-126-204-11	ELECT CHIP	47uF	20%	16V
C403	1-126-205-11	ELECT CHIP	47uF	20%	6.3V
		< CONNECTOR >			
CN101	1-815-763-32	CONNECTOR, FFC/FPC 24P			
* CN105	1-770-470-21	PIN, CONNECTOR (PC BOARD) 6P			
CN106	1-793-989-21	FFC/CONNECTOR, FPC (LIF(NON-ZIF)) 13P			
* CN201	1-770-470-21	PIN, CONNECTOR (PC BOARD) 6P			
CN301	1-793-989-21	FFC/CONNECTOR, FPC (LIF(NON-ZIF)) 13P			
CN302	1-784-374-21	CONNECTOR, FFC/FPC 15P (GNZ8D/GNZ9D)			
CN302	1-784-376-11	CONNECTOR, FFC/FPC 17P (GNZ7D)			
CN401	1-779-993-11	PIN, CONNECTOR (PWB) 5P			
		< DIODE >			
D1001	8-719-058-24	DIODE RB501V-40TE-17			
D3501	8-719-988-61	DIODE 1SS355TE-17			
D3502	8-719-988-61	DIODE 1SS355TE-17			
		< FERRITE BEAD >			
FB111	1-414-226-21	INDUCTOR, FERRITE BEAD			
FB112	1-414-226-21	INDUCTOR, FERRITE BEAD			
FB113	1-414-226-21	INDUCTOR, FERRITE BEAD			
FB114	1-414-226-21	INDUCTOR, FERRITE BEAD			
FB115	1-414-226-21	INDUCTOR, FERRITE BEAD			
FB401	1-469-324-21	FERRITE, EMI (SMD) (2012)			
FB402	1-469-324-21	FERRITE, EMI (SMD) (2012)			
FB403	1-469-324-21	FERRITE, EMI (SMD) (2012)			
FB404	1-469-324-21	FERRITE, EMI (SMD) (2012)			
FB405	1-469-324-21	FERRITE, EMI (SMD) (2012)			
FB406	1-469-324-21	FERRITE, EMI (SMD) (2012)			
		< FILTER >			
FL101	1-234-177-21	FILTER, CHIP EMI			
FL104	1-234-177-21	FILTER, CHIP EMI			
FL105	1-234-177-21	FILTER, CHIP EMI			
FL106	1-234-177-21	FILTER, CHIP EMI			
FL107	1-234-177-21	FILTER, CHIP EMI			
FL108	1-234-177-21	FILTER, CHIP EMI			
FL401	1-234-177-21	FILTER, CHIP EMI			
FL402	1-233-893-21	FILTER, CHIP EMI			
FL403	1-234-177-21	FILTER, CHIP EMI			
		< IC >			
IC101	6-805-258-01	IC MBM29DL32TF70-CBA3-0501UC			(GNZ7D:E2)
IC101	6-805-259-01	IC MBM29DL32TF70-CBA3-0501CE			(GNZ7D:E3,E12,E13,E15,EA)
IC101	6-805-260-01	IC MBM29DL32TF70-CBA3-0501GA			(GNZ7D:SP,PH,TH)
IC101	6-805-261-01	IC MBM29DL32TF70-CBA2-0501UC			(GNZ9D:E2,E51,MX)
IC101	6-805-262-01	IC MBM29DL32TF70-CBA2-0501CE			(GNZ8D:E3,E12,E13,E15,EA/GNZ9D:E3,E12,E13,E15,AUS,EA)
IC101	6-805-263-01	IC MBM29DL32TF70-CBA2-0501GA			(GNZ8D:SP,PH,TH/GNZ9D:SP,PH,TH)
IC102	6-706-727-01	IC CXD9804R			
☆ IC103	(Not supplied)	IC BR24L64F-WE2			
IC104	6-705-929-01	IC K4S641632H-UC75T			
IC105	6-702-302-01	IC TK11133CSCL-G			
IC106	8-759-667-18	IC PQ018EZ01ZP			
IC107	6-702-302-01	IC TK11133CSCL-G			
IC201	6-704-524-01	IC FAN8036L			
IC301	6-704-222-01	IC AK4358VQ-L			
IC3711	8-759-359-49	IC NJM3414AV(TE2)			
IC3731	8-759-359-49	IC NJM3414AV(TE2) (GNZ8D/GNZ9D)			
IC3751	8-759-359-49	IC NJM3414AV(TE2) (GNZ8D/GNZ9D)			
IC3771	8-759-359-49	IC NJM3414AV(TE2)			
		< TRANSISTOR >			
Q101	6-550-008-01	FET UM6K1N-TN			
Q102	6-550-653-01	FET QST8TR			
Q103	8-729-901-00	TRANSISTOR DTC124EK			
Q3801	8-729-230-49	TRANSISTOR 2SC2712-YG			
		< RESISTOR >			
R101	1-216-809-11	METAL CHIP	100	5%	1/10W
R104	1-216-864-11	SHORT CHIP	0		
R105	1-216-833-11	METAL CHIP	10K	5%	1/10W
R106	1-216-833-11	METAL CHIP	10K	5%	1/10W
R107	1-216-833-11	METAL CHIP	10K	5%	1/10W
R108	1-216-857-11	METAL CHIP	1M	5%	1/10W
R109	1-216-864-11	SHORT CHIP	0		
R110	1-216-841-11	METAL CHIP	47K	5%	1/10W

☆ IC103 is a written in and settled EEPROM. Supply with a single article has not been carried out. In case you exchange by DMB10 board, please put on IC103 currently used with the model again.

Ref. No.	Part No.	Description			Remark
R1101	1-216-825-11	METAL CHIP	2.2K	5%	1/10W
R1102	1-218-827-11	METAL CHIP	150	0.5%	1/10W
R1103	1-216-833-11	METAL CHIP	10K	5%	1/10W
R1104	1-216-833-11	METAL CHIP	10K	5%	1/10W
R1105	1-216-833-11	METAL CHIP	10K	5%	1/10W
R1107	1-216-864-11	SHORT CHIP	0		
R1108	1-216-833-11	METAL CHIP	10K	5%	1/10W
R1109	1-216-864-11	SHORT CHIP	0		
R111	1-216-809-11	METAL CHIP	100	5%	1/10W
R1110	1-216-826-11	METAL CHIP	2.7K	5%	1/10W
R112	1-211-977-11	METAL CHIP	22	0.5%	1/10W
R1120	1-216-864-11	SHORT CHIP	0		
R1121	1-216-864-11	SHORT CHIP	0		
R1122	1-216-864-11	SHORT CHIP	0		
R1123	1-216-864-11	SHORT CHIP	0		
R1124	1-216-864-11	SHORT CHIP	0		
R1125	1-216-864-11	SHORT CHIP	0		
R1126	1-216-833-11	METAL CHIP	10K	5%	1/10W
R1129	1-216-845-11	METAL CHIP	100K	5%	1/10W
R113	1-211-977-11	METAL CHIP	22	0.5%	1/10W
R1133	1-216-864-11	SHORT CHIP	0		
R1134	1-216-864-11	SHORT CHIP	0		
R114	1-216-845-11	METAL CHIP	100K	5%	1/10W
R115	1-211-977-11	METAL CHIP	22	0.5%	1/10W
R1150	1-216-827-11	METAL CHIP	3.3K	5%	1/10W
R1151	1-216-827-11	METAL CHIP	3.3K	5%	1/10W
R1152	1-216-827-11	METAL CHIP	3.3K	5%	1/10W
R116	1-216-821-11	METAL CHIP	1K	5%	1/10W
R1161	1-216-864-11	SHORT CHIP	0		
R1168	1-216-817-11	METAL CHIP	470	5%	1/10W
R117	1-216-841-11	METAL CHIP	47K	5%	1/10W
R118	1-216-801-11	METAL CHIP	22	5%	1/10W
R120	1-216-801-11	METAL CHIP	22	5%	1/10W
R121	1-216-801-11	METAL CHIP	22	5%	1/10W
R123	1-216-864-11	SHORT CHIP	0		
R124	1-216-841-11	METAL CHIP	47K	5%	1/10W
R126	1-216-864-11	SHORT CHIP	0		
R127	1-216-809-11	METAL CHIP	100	5%	1/10W
R133	1-216-827-11	METAL CHIP	3.3K	5%	1/10W
R134	1-216-827-11	METAL CHIP	3.3K	5%	1/10W
R135	1-216-827-11	METAL CHIP	3.3K	5%	1/10W
R136	1-216-835-11	METAL CHIP	15K	5%	1/10W
R138	1-216-845-11	METAL CHIP	100K	5%	1/10W
R141	1-218-916-11	METAL CHIP	750K	0.5%	1/10W
R142	1-216-845-11	METAL CHIP	100K	5%	1/10W
R143	1-216-809-11	METAL CHIP	100	5%	1/10W (GNZ7D:TH)
R143	1-469-116-21	FERRITE, EMI (SMD) (1608)			(GNZ7D:EXCEPT TH)
R144	1-216-864-11	SHORT CHIP	0		
R146	1-216-805-11	METAL CHIP	47	5%	1/10W
R1502	1-216-864-11	SHORT CHIP	0		
R1504	1-216-864-11	SHORT CHIP	0		
R151	1-216-805-11	METAL CHIP	47	5%	1/10W
R152	1-216-864-11	SHORT CHIP	0		
R1524	1-216-864-11	SHORT CHIP	0		
R1526	1-216-864-11	SHORT CHIP	0		
R153	1-216-805-11	METAL CHIP	47	5%	1/10W
R1530	1-216-864-11	SHORT CHIP	0		
R1531	1-216-864-11	SHORT CHIP	0		
R1540	1-216-829-11	METAL CHIP	4.7K	5%	1/10W
R1542	1-216-833-11	METAL CHIP	10K	5%	1/10W
R1543	1-216-833-11	METAL CHIP	10K	5%	1/10W
R1544	1-216-864-11	SHORT CHIP	0		
R1546	1-216-827-11	METAL CHIP	3.3K	5%	1/10W
R1547	1-216-829-11	METAL CHIP	4.7K	5%	1/10W
R1548	1-216-829-11	METAL CHIP	4.7K	5%	1/10W
R1549	1-216-829-11	METAL CHIP	4.7K	5%	1/10W
R155	1-216-805-11	METAL CHIP	47	5%	1/10W
R1550	1-216-829-11	METAL CHIP	4.7K	5%	1/10W
R1551	1-216-829-11	METAL CHIP	4.7K	5%	1/10W
R1552	1-216-829-11	METAL CHIP	4.7K	5%	1/10W
R1553	1-216-864-11	SHORT CHIP	0		
R1554	1-216-829-11	METAL CHIP	4.7K	5%	1/10W
R1557	1-216-809-11	METAL CHIP	100	5%	1/10W
R160	1-216-805-11	METAL CHIP	47	5%	1/10W
R161	1-216-809-11	METAL CHIP	100	5%	1/10W
R164	1-216-809-11	METAL CHIP	100	5%	1/10W
R169	1-216-833-11	METAL CHIP	10K	5%	1/10W
R187	1-216-864-11	SHORT CHIP	0		
R189	1-218-827-11	METAL CHIP	150	0.5%	1/10W
R190	1-218-827-11	METAL CHIP	150	0.5%	1/10W
R191	1-216-821-11	METAL CHIP	1K	5%	1/10W
R192	1-218-827-11	METAL CHIP	150	0.5%	1/10W
R193	1-216-821-11	METAL CHIP	1K	5%	1/10W
R195	1-218-827-11	METAL CHIP	150	0.5%	1/10W
R196	1-216-864-11	SHORT CHIP	0		
R197	1-218-827-11	METAL CHIP	150	0.5%	1/10W
R204	1-216-822-11	METAL CHIP	1.2K	5%	1/10W
R205	1-216-833-11	METAL CHIP	10K	5%	1/10W
R206	1-216-833-11	METAL CHIP	10K	5%	1/10W
R207	1-216-826-11	METAL CHIP	2.7K	5%	1/10W
R208	1-216-839-11	METAL CHIP	33K	5%	1/10W
R209	1-216-839-11	METAL CHIP	33K	5%	1/10W
R210	1-216-841-11	METAL CHIP	47K	5%	1/10W
R212	1-216-833-11	METAL CHIP	10K	5%	1/10W
R213	1-218-867-11	METAL CHIP	6.8K	0.5%	1/10W
R214	1-216-835-11	METAL CHIP	15K	5%	1/10W
R215	1-216-834-11	METAL CHIP	12K	5%	1/10W
R216	1-216-834-11	METAL CHIP	12K	5%	1/10W
R219	1-216-838-11	METAL CHIP	27K	5%	1/10W
R220	1-216-833-11	METAL CHIP	10K	5%	1/10W
R221	1-218-889-11	METAL CHIP	56K	0.5%	1/10W
R223	1-218-895-11	METAL CHIP	100K	0.5%	1/10W
R224	1-216-833-11	METAL CHIP	10K	5%	1/10W
R225	1-218-895-11	METAL CHIP	100K	0.5%	1/10W
R226	1-218-889-11	METAL CHIP	56K	0.5%	1/10W
R230	1-218-893-11	METAL CHIP	82K	0.5%	1/10W
R231	1-218-875-11	METAL CHIP	15K	0.5%	1/10W
R232	1-218-877-11	METAL CHIP	18K	0.5%	1/10W
R233	1-218-883-11	METAL CHIP	33K	0.5%	1/10W
R234	1-216-833-11	METAL CHIP	10K	5%	1/10W
R246	1-216-829-11	METAL CHIP	4.7K	5%	1/10W
R247	1-216-821-11	METAL CHIP	1K	5%	1/10W
R2504	1-216-829-11	METAL CHIP	4.7K	5%	1/10W

Ref. No.	Part No.	Description			Remark
R314	1-216-809-11	METAL CHIP	100	5%	1/10W
R318	1-216-864-11	SHORT CHIP	0		
R319	1-216-864-11	SHORT CHIP	0		
R321	1-216-864-11	SHORT CHIP	0		
R3501	1-216-809-11	METAL CHIP	100	5%	1/10W (GNZ7D:EXCEPT TH)
R3501	1-216-864-11	SHORT CHIP	0 (GNZ7D:TH)		
R3652	1-216-864-11	SHORT CHIP	0		
R3653	1-216-864-11	SHORT CHIP	0		
R3711	1-218-271-11	METAL CHIP	2K	5%	1/10W
R3712	1-218-271-11	METAL CHIP	2K	5%	1/10W
R3713	1-216-827-11	METAL CHIP	3.3K	5%	1/10W
R3714	1-216-827-11	METAL CHIP	3.3K	5%	1/10W
R3715	1-216-829-11	METAL CHIP	4.7K	5%	1/10W
R3716	1-216-821-11	METAL CHIP	1K	5%	1/10W
R3717	1-216-821-11	METAL CHIP	1K	5%	1/10W
R3718	1-216-829-11	METAL CHIP	4.7K	5%	1/10W
R3719	1-216-821-11	METAL CHIP	1K	5%	1/10W
R3721	1-218-271-11	METAL CHIP	2K	5%	1/10W
R3722	1-218-271-11	METAL CHIP	2K	5%	1/10W
R3723	1-216-827-11	METAL CHIP	3.3K	5%	1/10W
R3724	1-216-827-11	METAL CHIP	3.3K	5%	1/10W
R3725	1-216-829-11	METAL CHIP	4.7K	5%	1/10W
R3726	1-216-821-11	METAL CHIP	1K	5%	1/10W
R3727	1-216-821-11	METAL CHIP	1K	5%	1/10W
R3728	1-216-829-11	METAL CHIP	4.7K	5%	1/10W
R3729	1-216-821-11	METAL CHIP	1K	5%	1/10W
R3731	1-218-271-11	METAL CHIP	2K	5%	1/10W (GNZ8D/GNZ9D)
R3732	1-218-271-11	METAL CHIP	2K	5%	1/10W (GNZ8D/GNZ9D)
R3733	1-216-827-11	METAL CHIP	3.3K	5%	1/10W (GNZ8D/GNZ9D)
R3734	1-216-827-11	METAL CHIP	3.3K	5%	1/10W (GNZ8D/GNZ9D)
R3735	1-216-829-11	METAL CHIP	4.7K	5%	1/10W (GNZ8D/GNZ9D)
R3736	1-216-821-11	METAL CHIP	1K	5%	1/10W (GNZ8D/GNZ9D)
R3737	1-216-821-11	METAL CHIP	1K	5%	1/10W (GNZ8D/GNZ9D)
R3738	1-216-829-11	METAL CHIP	4.7K	5%	1/10W (GNZ8D/GNZ9D)
R3739	1-216-821-11	METAL CHIP	1K	5%	1/10W (GNZ8D/GNZ9D)
R3741	1-218-271-11	METAL CHIP	2K	5%	1/10W (GNZ8D/GNZ9D)
R3742	1-218-271-11	METAL CHIP	2K	5%	1/10W (GNZ8D/GNZ9D)
R3743	1-216-827-11	METAL CHIP	3.3K	5%	1/10W (GNZ8D/GNZ9D)
R3744	1-216-827-11	METAL CHIP	3.3K	5%	1/10W (GNZ8D/GNZ9D)
R3745	1-216-829-11	METAL CHIP	4.7K	5%	1/10W (GNZ8D/GNZ9D)
R3746	1-216-821-11	METAL CHIP	1K	5%	1/10W (GNZ8D/GNZ9D)
R3747	1-216-821-11	METAL CHIP	1K	5%	1/10W (GNZ8D/GNZ9D)
R3748	1-216-829-11	METAL CHIP	4.7K	5%	1/10W (GNZ8D/GNZ9D)
R3749	1-216-821-11	METAL CHIP	1K	5%	1/10W (GNZ8D/GNZ9D)
R3751	1-218-271-11	METAL CHIP	2K	5%	1/10W (GNZ8D/GNZ9D)
R3752	1-218-271-11	METAL CHIP	2K	5%	1/10W (GNZ8D/GNZ9D)
R3753	1-216-827-11	METAL CHIP	3.3K	5%	1/10W (GNZ8D/GNZ9D)
R3754	1-216-827-11	METAL CHIP	3.3K	5%	1/10W (GNZ8D/GNZ9D)
R3755	1-216-829-11	METAL CHIP	4.7K	5%	1/10W (GNZ8D/GNZ9D)
R3756	1-216-821-11	METAL CHIP	1K	5%	1/10W (GNZ8D/GNZ9D)
R3757	1-216-821-11	METAL CHIP	1K	5%	1/10W (GNZ8D/GNZ9D)
R3758	1-216-829-11	METAL CHIP	4.7K	5%	1/10W (GNZ8D/GNZ9D)
R3759	1-216-821-11	METAL CHIP	1K	5%	1/10W (GNZ8D/GNZ9D)
R3761	1-218-271-11	METAL CHIP	2K	5%	1/10W (GNZ8D/GNZ9D)
R3762	1-218-271-11	METAL CHIP	2K	5%	1/10W (GNZ8D/GNZ9D)
R3763	1-216-827-11	METAL CHIP	3.3K	5%	1/10W (GNZ8D/GNZ9D)
R3764	1-216-827-11	METAL CHIP	3.3K	5%	1/10W (GNZ8D/GNZ9D)
R3765	1-216-829-11	METAL CHIP	4.7K	5%	1/10W (GNZ8D/GNZ9D)
R3766	1-216-821-11	METAL CHIP	1K	5%	1/10W (GNZ8D/GNZ9D)
R3767	1-216-821-11	METAL CHIP	1K	5%	1/10W (GNZ8D/GNZ9D)
R3768	1-216-829-11	METAL CHIP	4.7K	5%	1/10W (GNZ8D/GNZ9D)
R3769	1-216-821-11	METAL CHIP	1K	5%	1/10W (GNZ8D/GNZ9D)
R3771	1-218-271-11	METAL CHIP	2K	5%	1/10W
R3772	1-218-271-11	METAL CHIP	2K	5%	1/10W
R3773	1-216-827-11	METAL CHIP	3.3K	5%	1/10W
R3774	1-216-827-11	METAL CHIP	3.3K	5%	1/10W
R3775	1-216-829-11	METAL CHIP	4.7K	5%	1/10W
R3776	1-216-821-11	METAL CHIP	1K	5%	1/10W
R3777	1-216-821-11	METAL CHIP	1K	5%	1/10W
R3778	1-216-829-11	METAL CHIP	4.7K	5%	1/10W
R3779	1-216-821-11	METAL CHIP	1K	5%	1/10W
R3781	1-218-271-11	METAL CHIP	2K	5%	1/10W
R3782	1-218-271-11	METAL CHIP	2K	5%	1/10W
R3783	1-216-827-11	METAL CHIP	3.3K	5%	1/10W
R3784	1-216-827-11	METAL CHIP	3.3K	5%	1/10W
R3785	1-216-829-11	METAL CHIP	4.7K	5%	1/10W
R3786	1-216-821-11	METAL CHIP	1K	5%	1/10W
R3787	1-216-821-11	METAL CHIP	1K	5%	1/10W
R3788	1-216-829-11	METAL CHIP	4.7K	5%	1/10W
R3789	1-216-821-11	METAL CHIP	1K	5%	1/10W
R3801	1-216-864-11	SHORT CHIP	0		
R3802	1-216-864-11	SHORT CHIP	0		
R3803	1-216-833-11	METAL CHIP	10K	5%	1/10W
R3804	1-216-836-11	METAL CHIP	18K	5%	1/10W

Ref. No.	Part No.	Description			Remark
R3805	1-216-821-11	METAL CHIP	1K	5%	1/10W
R4701	1-216-864-11	SHORT CHIP	0		
R4702	1-216-864-11	SHORT CHIP	0		
R4703	1-216-864-11	SHORT CHIP	0		
R4704	1-216-864-11	SHORT CHIP	0		
R4705	1-216-864-11	SHORT CHIP	0		
R4706	1-216-864-11	SHORT CHIP	0		
R5003	1-216-864-11	SHORT CHIP	0 (GNZ7D)		
R5004	1-216-864-11	SHORT CHIP	0 (GNZ8D/GNZ9D)		
R5011	1-216-864-11	SHORT CHIP	0		
R5014	1-216-864-11	SHORT CHIP	0 (E2,E51,MX)		
R5016	1-216-864-11	SHORT CHIP	0		(E3,E12,E13,E15,AUS,EA)
R5017	1-216-864-11	SHORT CHIP	0 (SP,PH,TH)		
		< COMPOSITION CIRCUIT BLOCK >			
RB103	1-234-795-21	RES, NETWORK 0X4 (2010)			
RB104	1-234-795-21	RES, NETWORK 0X4 (2010)			
RB105	1-234-371-21	RES, NETWORK 47X4 (1005)			
RB106	1-234-371-21	RES, NETWORK 47X4 (1005)			
RB107	1-234-370-21	RES, NETWORK 22X4 (1005)			
RB108	1-234-370-21	RES, NETWORK 22X4 (1005)			
RB111	1-234-795-21	RES, NETWORK 0X4 (2010)			
RB112	1-234-370-21	RES, NETWORK 22X4 (1005)			
RB113	1-234-370-21	RES, NETWORK 22X4 (1005)			
		< VIBRATOR >			
X101	1-781-867-21	VIBRATOR, CRYSTAL (27MHz)			

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Ref. No.	Part No.	Description			Remark
	A-1103-756-A	DRIVER BOARD, COMPLETE **********************			
		< CAPACITOR >			
C715	1-126-933-11	ELECT	100uF	20%	16V
C731	1-126-964-11	ELECT	10uF	20%	50V
C735	1-164-159-21	CERAMIC	0.1uF		50V
C736	1-164-159-21	CERAMIC	0.1uF		50V
C737	1-164-159-21	CERAMIC	0.1uF		50V
C741	1-162-306-11	CERAMIC	0.01uF	20%	16V
C751	1-162-306-11	CERAMIC	0.01uF	20%	16V
C752	1-164-159-21	CERAMIC	0.1uF		50V
		< CONNECTOR >			
CN701	1-784-735-11	CONNECTOR, FFC 13P			
CN702	1-784-766-11	CONNECTOR, FFC 5P			
* CN703	1-564-720-11	PIN, CONNECTOR (SMALL TYPE) 4P			
CN704	1-785-328-11	PIN, CONNECTOR (LIGHT ANGLE) 2P			
		< DIODE >			
D701	8-719-921-42	DIODE MTZJ-5.1A			
D711	8-719-109-69	DIODE RD3.6ESB2			
		< IC >			
IC701	8-759-598-69	IC BA6956AN			
IC712	8-759-598-69	IC BA6956AN			
		< TRANSISTOR >			
Q731	8-729-029-66	TRANSISTOR DTC114ESA			
		< RESISTOR >			
R701	1-249-413-11	CARBON	470	5%	1/4W
R702	1-247-807-31	CARBON	100	5%	1/4W
R711	1-249-417-11	CARBON	1K	5%	1/4W
R712	1-249-425-11	CARBON	4.7K	5%	1/4W
R713	1-249-433-11	CARBON	22K	5%	1/4W
R721	1-249-425-11	CARBON	4.7K	5%	1/4W
R722	1-249-425-11	CARBON	4.7K	5%	1/4W
R723	1-249-425-11	CARBON	4.7K	5%	1/4W
R731	1-247-807-31	CARBON	100	5%	1/4W
R732	1-249-429-11	CARBON	10K	5%	1/4W
R733	1-249-417-11	CARBON	1K	5%	1/4W
R734	1-249-430-11	CARBON	12K	5%	1/4W
R735	1-247-807-31	CARBON	100	5%	1/4W
R751	1-249-425-11	CARBON	4.7K	5%	1/4W

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Ref. No.	Part No.	Description			Remark
	A-1095-771-A	FRONT AMP BOARD, COMPLETE			(GNZ9D:EXCEPT TH)
	A-1095-772-A	FRONT AMP BOARD, COMPLETE			(GNZ8D:EXCEPT TH)
	A-1095-773-A	FRONT AMP BOARD, COMPLETE			(GNZ7D:EXCEPT TH)
	A-1111-483-A	FRONT AMP BOARD, COMPLETE (GNZ9D:TH)			
	A-1111-484-A	FRONT AMP BOARD, COMPLETE (GNZ8D:TH)			
	A-1111-485-A	FRONT AMP BOARD, COMPLETE (GNZ7D:TH) **************************			
	7-685-872-09	SCREW +BVTT 3X8 (S)			
		< CAPACITOR >			
C401	1-126-964-11	ELECT	10uF	20%	50V
C402	1-162-294-31	CERAMIC	0.001uF	10%	50V
C403	1-162-286-31	CERAMIC	220PF	10%	50V
C404	1-126-967-11	ELECT	47uF	20%	50V (GNZ8D/GNZ9D)
C404	1-126-968-11	ELECT	100uF	20%	50V (GNZ7D)
C406	1-136-495-11	FILM	0.068uF	5%	50V
C407	1-136-495-11	FILM	0.068uF	5%	50V
C408	1-128-576-11	ELECT	100uF	20%	63V
C410	1-126-926-11	ELECT	1000uF	20%	10V
C416	1-162-306-11	CERAMIC	0.01uF	20%	16V
C421	1-126-966-11	ELECT	33uF	20%	50V
C451	1-126-964-11	ELECT	10uF	20%	50V
C452	1-162-294-31	CERAMIC	0.001uF	10%	50V
C453	1-162-286-31	CERAMIC	220PF	10%	50V
C454	1-126-967-11	ELECT	47uF	20%	50V (GNZ8D/GNZ9D)
C454	1-126-968-11	ELECT	100uF	20%	50V (GNZ7D)
C456	1-136-495-11	FILM	0.068uF	5%	50V
C457	1-136-495-11	FILM	0.068uF	5%	50V
C458	1-128-576-11	ELECT	100uF	20%	63V
C471	1-135-928-21	ELECT	2200uF	20%	63V
C472	1-135-928-21	ELECT	2200uF	20%	63V

Ref. No.	Part No.	Description			Remark
C485	1-162-306-11	CERAMIC	0.01uF	20%	16V
C486	1-162-306-11	CERAMIC	0.01uF	20%	16V
C941	1-126-956-11	ELECT	0.1uF	20%	50V
C942	1-126-925-11	ELECT	470uF	20%	10V
C943	1-126-956-11	ELECT	0.1uF	20%	50V
C944	1-104-658-11	ELECT	100uF	20%	10V
C945	1-126-956-11	ELECT	0.1uF	20%	50V
C946	1-104-658-11	ELECT	100uF	20%	10V
C949	1-126-947-11	ELECT	47uF	20%	35V
C950	1-104-658-11	ELECT	100uF	20%	10V
		< CONNECTOR >			
CN401	1-573-829-11	CONNECTOR, BOARD TO BOARD 15P			
CN402	1-573-829-11	CONNECTOR, BOARD TO BOARD 15P			
CN403	1-564-506-11	PLUG, CONNECTOR 3P (GNZ9D)			
CN404	1-564-507-11	PLUG, CONNECTOR 4P (GNZ9D)			
		< DIODE >			
D401	8-719-991-33	DIODE 1SS133T-77			
D410	8-719-210-21	DIODE 11EQS04			
D451	8-719-991-33	DIODE 1SS133T-77			
D471	8-719-022-99	DIODE D6SB60L (GNZ9D)			
D471	8-719-510-68	DIODE D5SBA204101 (GNZ7D/GNZ8D)			
D481	8-719-991-33	DIODE 1SS133T-77			
D485	8-719-991-33	DIODE 1SS133T-77			
D486	8-719-991-33	DIODE 1SS133T-77			
D491	8-719-991-33	DIODE 1SS133T-77			
		< IC >			
IC401	6-600-221-01	IC STK403-130 (GNZ9D)			
IC401	6-705-853-01	IC STK403-120 (GNZ7D/GNZ8D)			
		< TRANSISTOR >			
Q401	8-729-140-84	TRANSISTOR 2SC1841-PAFAEA			
Q402	8-729-140-82	TRANSISTOR 2SA988-PAFAEA			
Q403	8-729-140-84	TRANSISTOR 2SC1841-PAFAEA			
Q416	8-729-119-78	TRANSISTOR 2SC2785-HFE			
Q417	8-729-119-78	TRANSISTOR 2SC2785-HFE			
Q451	8-729-140-84	TRANSISTOR 2SC1841-PAFAEA			
Q481	8-729-140-82	TRANSISTOR 2SA988-PAFAEA			
Q482	8-729-140-84	TRANSISTOR 2SC1841-PAFAEA			
		< RESISTOR >			
R401	1-247-831-11	CARBON	1K	5%	1/4W
R402	1-247-871-11	CARBON	47K	5%	1/4W
R403	1-247-807-31	CARBON	100	5%	1/4W (GNZ7D)
R403	1-249-407-11	CARBON	150	5%	1/4W (GNZ9D)
R403	1-249-408-11	CARBON	180	5%	1/4W (GNZ8D)
R404	1-247-871-11	CARBON	47K	5%	1/4W
⚠R406	1-208-602-11	METAL	0.22X2		2W F
R407	1-247-831-11	CARBON	1K	5%	1/4W
R408	1-249-431-11	CARBON	15K	5%	1/4W
R409	1-247-879-11	CARBON	100K	5%	1/4W
R410	1-260-076-11	CARBON	10	5%	1/2W F
⚠R411	1-212-881-11	FUSIBLE	100	5%	1/4W F
R412	1-247-887-00	CARBON	220K	5%	1/4W
R413	1-249-421-11	CARBON	2.2K	5%	1/4W
R415	1-249-429-11	CARBON	10K	5%	1/4W
R416	1-249-429-11	CARBON	10K	5%	1/4W
R417	1-249-429-11	CARBON	10K	5%	1/4W
R418	1-247-871-11	CARBON	47K	5%	1/4W
⚠R419	1-202-972-61	FUSIBLE	1	5%	1/4W F
⚠R420	1-202-972-61	FUSIBLE	1	5%	1/4W F
R421	1-249-429-11	CARBON	10K	5%	1/4W
R425	1-249-439-11	CARBON	68K	5%	1/4W
R426	1-249-426-11	CARBON	5.6K	5%	1/4W
R427	1-249-421-11	CARBON	2.2K	5%	1/4W
R428	1-247-863-11	CARBON	22K	5%	1/4W
R429	1-249-429-11	CARBON	10K	5%	1/4W
R430	1-249-429-11	CARBON	10K	5%	1/4W
R439	1-247-871-11	CARBON	47K	5%	1/4W
R440	1-247-873-11	CARBON	56K	5%	1/4W
R451	1-247-831-11	CARBON	1K	5%	1/4W
R452	1-247-871-11	CARBON	47K	5%	1/4W
R453	1-247-807-31	CARBON	100	5%	1/4W (GNZ7D)
R453	1-249-407-11	CARBON	150	5%	1/4W (GNZ9D)
R453	1-249-408-11	CARBON	180	5%	1/4W (GNZ8D)
R454	1-247-871-11	CARBON	47K	5%	1/4W
⚠R456	1-208-602-11	METAL	0.22X2		2W F
R457	1-247-831-11	CARBON	1K	5%	1/4W
R458	1-249-431-11	CARBON	15K	5%	1/4W
R459	1-247-879-11	CARBON	100K	5%	1/4W
R460	1-260-076-11	CARBON	10	5%	1/2W F
⚠R461	1-212-881-11	FUSIBLE	100	5%	1/4W F
R471	1-247-879-11	CARBON	100K	5%	1/4W
R472	1-247-879-11	CARBON	100K	5%	1/4W
⚠R480	1-215-892-11	METAL OXIDE	1K	5%	2W F (GNZ8D)
⚠R480	1-216-457-00	METAL OXIDE	1.2K	5%	2W F (GNZ7D/GNZ9D)
R485	1-247-871-11	CARBON	47K	5%	1/4W
R486	1-247-871-11	CARBON	47K	5%	1/4W
R487	1-249-429-11	CARBON	10K	5%	1/4W
R488	1-247-871-11	CARBON	47K	5%	1/4W
R489	1-249-429-11	CARBON	10K	5%	1/4W
R490	1-249-429-11	CARBON	10K	5%	1/4W
R941	1-247-831-11	CARBON	1K	5%	1/4W
		< RELAY >			
RY481	1-515-920-11	RELAY (24V)			
		< THERMISTOR >			
TH401	1-807-796-11	THERMISTOR 10K			
		< TERMINAL BOARD >			
TM401	1-694-677-12	TERMINAL BOARD (4P) (FRONT SPEAKER)			

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Ref. No.	Part No.	Description			Remark
	A-1095-805-A	JACK BOARD, COMPLETE (EXCEPT TH)			
	A-1111-503-A	JACK BOARD, COMPLETE (TH) ********************			
		< CAPACITOR >			
C1001	1-162-964-11	CERAMIC CHIP	0.001uF	10%	50V
C1002	1-162-964-11	CERAMIC CHIP	0.001uF	10%	50V
C1003	1-162-953-11	CERAMIC CHIP	100PF	5%	50V
C1004	1-126-791-11	ELECT	10uF	20%	35V
C1005	1-115-872-11	ELECT	2.2uF	20%	50V
C1006	1-162-955-11	CERAMIC CHIP	150PF	5%	50V
C1007	1-126-786-11	ELECT	47uF	20%	16V
C1008	1-162-949-11	CERAMIC CHIP	47PF	5%	50V
C1009	1-115-872-11	ELECT	2.2uF	20%	50V
C1010	1-115-867-11	ELECT	0.1uF	20%	50V
C1011	1-162-962-11	CERAMIC CHIP	470PF	10%	50V
C1012	1-126-786-11	ELECT	47uF	20%	16V
C1013	1-162-949-11	CERAMIC CHIP	47PF	5%	50V
C1014	1-115-868-11	ELECT	0.22uF	20%	50V
C1015	1-115-868-11	ELECT	0.22uF	20%	50V
C1016	1-107-726-11	CERAMIC CHIP	0.01uF	10%	16V
C1017	1-107-726-11	CERAMIC CHIP	0.01uF	10%	16V
C1018	1-131-664-11	CERAMIC CHIP	0.15uF	10%	10V
C1019	1-115-871-11	ELECT	1uF	20%	50V
C1020	1-115-871-11	ELECT	1uF	20%	50V
C1021	1-115-870-11	ELECT	0.47uF	20%	50V
C1022	1-162-964-11	CERAMIC CHIP	0.001uF	10%	50V
C1023	1-162-969-11	CERAMIC CHIP	0.0068uF	10%	25V
C1024	1-164-227-11	CERAMIC CHIP	0.022uF	10%	25V
C1025	1-115-870-11	ELECT	0.47uF	20%	50V
C1026	1-110-563-11	CERAMIC CHIP	0.068uF	10%	16V
C1027	1-110-563-11	CERAMIC CHIP	0.068uF	10%	16V
C1028	1-126-785-11	ELECT	47uF	20%	10V
C1029	1-115-872-11	ELECT	2.2uF	20%	50V
C1030	1-162-969-11	CERAMIC CHIP	0.0068uF	10%	25V
C1031	1-162-964-11	CERAMIC CHIP	0.001uF	10%	50V
C1034	1-164-360-11	CERAMIC CHIP	0.1uF		16V
C1035	1-164-360-11	CERAMIC CHIP	0.1uF		16V
C1036	1-164-360-11	CERAMIC CHIP	0.1uF		16V
		< DIODE >			
D1001	8-719-988-61	DIODE 1SS355TE-17			
D1002	8-719-988-61	DIODE 1SS355TE-17			
D1003	8-719-988-61	DIODE 1SS355TE-17			
D1004	8-719-988-61	DIODE 1SS355TE-17			
D1005	8-719-988-61	DIODE 1SS355TE-17			
D1006	8-719-988-61	DIODE 1SS355TE-17			
D1007	8-719-083-58	DIODE UDZSTE-173.9B			
		< GROUND TERMINAL >			
EPT1001	1-537-771-21	TERMINAL BOARD, GROUND			
EPT1002	1-537-771-21	TERMINAL BOARD, GROUND			
		< FERRITE BEAD >			
FB1001	1-469-869-21	INDUCTOR (EMI FERRITE) (2012)			
FB1002	1-216-295-11	SHORT CHIP	0		
FB1003	1-216-295-11	SHORT CHIP	0		
FB1004	1-216-295-11	SHORT CHIP	0		
		< IC >			
IC1001	8-759-710-97	IC NJM4565M-D			
IC1002	8-759-496-41	IC M65850FP-E1			
		< JACK >			
J1001	1-764-592-11	JACK, PIN 3P (VIDEO INPUT)			
J1002	1-770-226-11	JACK (LARGE TYPE) (MIC 2)			
J1003	1-770-226-11	JACK (LARGE TYPE) (MIC 1)			
J1004	1-794-702-11	JACK, HEADPHONE (PHONES)			
		< JUMPER RESISTOR >			
JR1000	1-216-295-11	SHORT CHIP	0		
JW1001	1-216-295-11	SHORT CHIP	0		
		< RESISTOR >			
R1000	1-218-285-11	METAL CHIP	75	5%	1/10W
R1001	1-216-821-11	METAL CHIP	1K	5%	1/10W
R1002	1-216-821-11	METAL CHIP	1K	5%	1/10W
R1003	1-216-841-11	METAL CHIP	47K	5%	1/10W
R1004	1-216-841-11	METAL CHIP	47K	5%	1/10W
R1005	1-216-833-11	METAL CHIP	10K	5%	1/10W
R1006	1-216-845-11	METAL CHIP	100K	5%	1/10W
R1007	1-216-813-11	METAL CHIP	220	5%	1/10W
R1008	1-216-809-11	METAL CHIP	100	5%	1/10W
R1009	1-216-830-11	METAL CHIP	5.6K	5%	1/10W
R1010	1-216-829-11	METAL CHIP	4.7K	5%	1/10W
R1011	1-216-847-11	METAL CHIP	150K	5%	1/10W
R1012	1-216-833-11	METAL CHIP	10K	5%	1/10W
R1013	1-216-809-11	METAL CHIP	100	5%	1/10W
R1014	1-216-851-11	METAL CHIP	330K	5%	1/10W
R1015	1-216-835-11	METAL CHIP	15K	5%	1/10W
R1016	1-216-835-11	METAL CHIP	15K	5%	1/10W
R1017	1-216-833-11	METAL CHIP	10K	5%	1/10W
R1018	1-216-833-11	METAL CHIP	10K	5%	1/10W
R1021	1-216-841-11	METAL CHIP	47K	5%	1/10W
R1022	1-216-837-11	METAL CHIP	22K	5%	1/10W
R1023	1-216-837-11	METAL CHIP	22K	5%	1/10W
R1024	1-216-835-11	METAL CHIP	15K	5%	1/10W
R1025	1-216-837-11	METAL CHIP	22K	5%	1/10W
R1026	1-216-837-11	METAL CHIP	22K	5%	1/10W
R1027	1-216-837-11	METAL CHIP	22K	5%	1/10W
R1028	1-216-837-11	METAL CHIP	22K	5%	1/10W
R1029	1-216-846-11	METAL CHIP	120K	5%	1/10W
R1030	1-216-835-11	METAL CHIP	15K	5%	1/10W
R1031	1-260-083-11	CARBON	47	5%	1/2W F
R1032	1-260-083-11	CARBON	47	5%	1/2W F
		< VARIABLE RESISTOR >			
RV1001	1-223-983-11	RES, VAR, CARBON 50K (MIC LEVEL)			
RV1002	1-223-983-11	RES, VAR, CARBON 50K (ECHO LEVEL)			

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Ref. No.	Part No.	Description			Remark
	1-687-133-12	MOTOR (LD) BOARD ****************			

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Ref. No.	Part No.	Description			Remark
	1-687-134-12	MOTOR (TB) BOARD ****************			
		< CONNECTOR >			
CN742	1-784-727-11	CONNECTOR, FFC 5P			
***					
	A-1095-804-A	PANEL BOARD, COMPLETE (EXCEPT TH)			
	A-1111-502-A	PANEL BOARD, COMPLETE (TH) ********************			
		< CAPACITOR >			
C101	1-164-156-11	CERAMIC CHIP	0.1uF		25V
C102	1-164-156-11	CERAMIC CHIP	0.1uF		25V
C103	1-126-916-11	ELECT	1000uF	20%	6.3V
C104	1-107-826-11	CERAMIC CHIP	0.1uF	10%	16V
C105	1-119-941-11	ELECT	470uF	20%	6.3V
C106	1-107-826-11	CERAMIC CHIP	0.1uF	10%	16V
C110	1-162-918-11	CERAMIC CHIP	18PF	5%	50V
C111	1-162-919-11	CERAMIC CHIP	22PF	5%	50V
C112	1-164-156-11	CERAMIC CHIP	0.1uF		25V
C113	1-162-974-11	CERAMIC CHIP	0.01uF		50V
C114	1-162-974-11	CERAMIC CHIP	0.01uF		50V
C115	1-165-989-11	CERAMIC CHIP	10uF	10%	6.3V
C116	1-162-953-11	CERAMIC CHIP	100PF	5%	50V
C117	1-162-953-11	CERAMIC CHIP	100PF	5%	50V
C118	1-162-953-11	CERAMIC CHIP	100PF	5%	50V
C119	1-162-953-11	CERAMIC CHIP	100PF	5%	50V
C120	1-162-953-11	CERAMIC CHIP	100PF	5%	50V
C121	1-119-941-11	ELECT	470uF	20%	6.3V
C122	1-119-941-11	ELECT	470uF	20%	6.3V
C125	1-162-974-11	CERAMIC CHIP	0.01uF		50V
C126	1-119-943-11	ELECT	47uF	20%	50V
C127	1-162-974-11	CERAMIC CHIP	0.01uF		50V
C128	1-126-382-11	ELECT	100uF	20%	16V
C129	1-162-953-11	CERAMIC CHIP	100PF	5%	50V
C130	1-162-953-11	CERAMIC CHIP	100PF	5%	50V
C144	1-165-989-11	CERAMIC CHIP	10uF	10%	6.3V
C145	1-107-826-11	CERAMIC CHIP	0.1uF	10%	16V
C146	1-107-826-11	CERAMIC CHIP	0.1uF	10%	16V
C147	1-126-382-11	ELECT	100uF	20%	16V
C152	1-162-953-11	CERAMIC CHIP	100PF	5%	50V
C153	1-162-953-11	CERAMIC CHIP	100PF	5%	50V
C154	1-162-953-11	CERAMIC CHIP	100PF	5%	50V
		< CONNECTOR >			
* CN001	1-568-450-11	HOUSING, CONNECTOR (PC BOARD) 4P			
* CN002	1-568-451-11	HOUSING, CONNECTOR (PC BOARD) 10P			
CN003	1-784-749-11	CONNECTOR, FFC 27P			
CN004	1-784-735-11	CONNECTOR, FFC 13P			
CN005	1-779-550-21	CONNECTOR, FFC (LIF(NON-ZIF)) 13P			
CN102	1-784-735-11	CONNECTOR, FFC 13P			
CN151	1-785-334-11	PIN, CONNECTOR (LIGHT ANGLE) 8P			
CN152	1-785-330-11	PIN, CONNECTOR (LIGHT ANGLE) 4P			
CN153	1-818-282-11	PIN, CONNECTOR (FOR PWB) 3P			
		< DIODE >			
D101	6-500-335-01	DIODE MC2838-T112-1			
D102	6-500-335-01	DIODE MC2838-T112-1			
D105	8-719-988-61	DIODE 1SS355TE-17			
D106	8-719-988-61	DIODE 1SS355TE-17			
D107	8-719-988-61	DIODE 1SS355TE-17			
D108	1-216-295-11	SHORT CHIP	0		
D109	8-719-988-61	DIODE 1SS355TE-17			
D110	8-719-053-43	LED SLR-325VCT31 (I/⏻)			
D111	8-719-988-61	DIODE 1SS355TE-17			
D112	8-719-988-61	DIODE 1SS355TE-17			
D113	8-719-988-61	DIODE 1SS355TE-17			
D114	8-719-988-61	DIODE 1SS355TE-17			
D121	8-719-988-61	DIODE 1SS355TE-17			
		< JUMPER RESISTOR >			
FB101	1-216-295-11	SHORT CHIP	0		
FB102	1-216-295-11	SHORT CHIP	0		
FB103	1-216-295-11	SHORT CHIP	0		
FB104	1-216-295-11	SHORT CHIP	0		
FB105	1-216-295-11	SHORT CHIP	0		
		< FLUORESCENT INDICATOR >			
FL101	1-519-811-11	INDICATOR TUBE, FLUORESCENT			
		< IC >			
IC101	6-805-164-01	IC M30392MEP-A00FPU5			
IC102	6-707-095-01	IC BH2210FV-E2			
IC103	6-707-920-01	IC BD4828G-TR			
		< JUMPER RESISTOR >			
JR101	1-216-864-11	SHORT CHIP	0		
JR103	1-216-864-11	SHORT CHIP	0		
JR104	1-216-864-11	SHORT CHIP	0		
JR105	1-216-864-11	SHORT CHIP	0		
JR106	1-216-864-11	SHORT CHIP	0		
JR107	1-216-864-11	SHORT CHIP	0		
JR108	1-216-864-11	SHORT CHIP	0		
JR109	1-216-864-11	SHORT CHIP	0		
JR110	1-216-864-11	SHORT CHIP	0		
JR111	1-216-864-11	SHORT CHIP	0		
JR112	1-216-864-11	SHORT CHIP	0		
JR119	1-216-864-11	SHORT CHIP	0		
JR120	1-216-864-11	SHORT CHIP	0		
JR121	1-216-864-11	SHORT CHIP	0		
JR123	1-216-864-11	SHORT CHIP	0		
		< TRANSISTOR >			
Q101	8-729-039-14	TRANSISTOR BCR133W-GEG-E6327			
Q102	6-550-044-01	TRANSISTOR 2SB1689-T106			
Q103	8-729-039-14	TRANSISTOR BCR133W-GEG-E6327			
Q104	6-550-044-01	TRANSISTOR 2SB1689-T106			
Q105	8-729-039-14	TRANSISTOR BCR133W-GEG-E6327			
Q106	6-550-044-01	TRANSISTOR 2SB1689-T106			
Q107	8-729-905-35	TRANSISTOR 2SC4081-R			
Q108	8-729-039-14	TRANSISTOR BCR133W-GEG-E6327			
Q109	8-729-026-53	TRANSISTOR 2SA1576A-T106-QR			
Q111	8-729-039-14	TRANSISTOR BCR133W-GEG-E6327			
Q112	8-729-039-14	TRANSISTOR BCR133W-GEG-E6327			
Q113	8-729-039-14	TRANSISTOR BCR133W-GEG-E6327			

Ref. No.	Part No.	Description			Remark
Q114	8-729-039-14	TRANSISTOR BCR133W-GEG-E6327			
Q115	8-729-039-14	TRANSISTOR BCR133W-GEG-E6327			
Q116	8-729-106-60	TRANSISTOR 2SB1115A-YQ			
Q117	8-729-106-60	TRANSISTOR 2SB1115A-YQ			
		< RESISTOR >			
R001	1-216-837-11	METAL CHIP	22K	5%	1/10W
R002	1-216-809-11	METAL CHIP	100	5%	1/10W
R003	1-216-809-11	METAL CHIP	100	5%	1/10W
R004	1-216-809-11	METAL CHIP	100	5%	1/10W
R005	1-216-809-11	METAL CHIP	100	5%	1/10W
R006	1-216-809-11	METAL CHIP	100	5%	1/10W
R007	1-216-809-11	METAL CHIP	100	5%	1/10W
R008	1-216-809-11	METAL CHIP	100	5%	1/10W
R009	1-216-809-11	METAL CHIP	100	5%	1/10W
R010	1-216-809-11	METAL CHIP	100	5%	1/10W
R011	1-216-809-11	METAL CHIP	100	5%	1/10W
R012	1-216-809-11	METAL CHIP	100	5%	1/10W
R013	1-216-833-11	METAL CHIP	10K	5%	1/10W
R014	1-216-837-11	METAL CHIP	22K	5%	1/10W
R015	1-216-841-11	METAL CHIP	47K	5%	1/10W
R016	1-216-833-11	METAL CHIP	10K	5%	1/10W
R017	1-216-809-11	METAL CHIP	100	5%	1/10W
R018	1-216-809-11	METAL CHIP	100	5%	1/10W
R019	1-216-809-11	METAL CHIP	100	5%	1/10W
R020	1-216-809-11	METAL CHIP	100	5%	1/10W
R021	1-216-809-11	METAL CHIP	100	5%	1/10W
R022	1-216-809-11	METAL CHIP	100	5%	1/10W
R023	1-216-809-11	METAL CHIP	100	5%	1/10W
R024	1-216-809-11	METAL CHIP	100	5%	1/10W
R025	1-216-829-11	METAL CHIP	4.7K	5%	1/10W
R026	1-216-809-11	METAL CHIP	100	5%	1/10W
R027	1-216-837-11	METAL CHIP	22K	5%	1/10W
R028	1-216-841-11	METAL CHIP	47K	5%	1/10W
R029	1-216-829-11	METAL CHIP	4.7K	5%	1/10W
R030	1-216-829-11	METAL CHIP	4.7K	5%	1/10W
R031	1-216-833-11	METAL CHIP	10K	5%	1/10W
R032	1-216-837-11	METAL CHIP	22K	5%	1/10W
R033	1-216-841-11	METAL CHIP	47K	5%	1/10W
R034	1-216-829-11	METAL CHIP	4.7K	5%	1/10W
R035	1-216-841-11	METAL CHIP	47K	5%	1/10W
R036	1-216-829-11	METAL CHIP	4.7K	5%	1/10W
R037	1-216-833-11	METAL CHIP	10K	5%	1/10W
R038	1-216-829-11	METAL CHIP	4.7K	5%	1/10W
R039	1-216-829-11	METAL CHIP	4.7K	5%	1/10W
R040	1-216-829-11	METAL CHIP	4.7K	5%	1/10W
R041	1-216-813-11	METAL CHIP	220	5%	1/10W
R042	1-216-815-11	METAL CHIP	330	5%	1/10W
R043	1-216-817-11	METAL CHIP	470	5%	1/10W
R044	1-216-819-11	METAL CHIP	680	5%	1/10W
R045	1-216-821-11	METAL CHIP	1K	5%	1/10W
R046	1-216-823-11	METAL CHIP	1.5K	5%	1/10W
R047	1-216-825-11	METAL CHIP	2.2K	5%	1/10W
R048	1-216-829-11	METAL CHIP	4.7K	5%	1/10W
R049	1-216-833-11	METAL CHIP	10K	5%	1/10W
R050	1-216-839-11	METAL CHIP	33K	5%	1/10W
R051	1-216-819-11	METAL CHIP	680	5%	1/10W
R052	1-216-821-11	METAL CHIP	1K	5%	1/10W
R053	1-216-819-11	METAL CHIP	680	5%	1/10W
R054	1-216-821-11	METAL CHIP	1K	5%	1/10W
R055	1-216-819-11	METAL CHIP	680	5%	1/10W
R056	1-216-821-11	METAL CHIP	1K	5%	1/10W
R057	1-216-833-11	METAL CHIP	10K	5%	1/10W
R058	1-216-829-11	METAL CHIP	4.7K	5%	1/10W
R059	1-216-833-11	METAL CHIP	10K	5%	1/10W
R060	1-216-833-11	METAL CHIP	10K	5%	1/10W
R061	1-216-813-11	METAL CHIP	220	5%	1/10W
R062	1-216-815-11	METAL CHIP	330	5%	1/10W
R063	1-216-817-11	METAL CHIP	470	5%	1/10W
R064	1-216-819-11	METAL CHIP	680	5%	1/10W
R065	1-216-821-11	METAL CHIP	1K	5%	1/10W
R066	1-216-823-11	METAL CHIP	1.5K	5%	1/10W
R067	1-216-825-11	METAL CHIP	2.2K	5%	1/10W
R068	1-216-829-11	METAL CHIP	4.7K	5%	1/10W
R070	1-216-864-11	SHORT CHIP	0		
R071	1-216-864-11	SHORT CHIP	0		
R072	1-216-817-11	METAL CHIP	470	5%	1/10W
R073	1-216-833-11	METAL CHIP	10K	5%	1/10W
R074	1-216-829-11	METAL CHIP	4.7K	5%	1/10W
R075	1-216-837-11	METAL CHIP	22K	5%	1/10W
R076	1-216-837-11	METAL CHIP	22K	5%	1/10W
R077	1-216-841-11	METAL CHIP	47K	5%	1/10W
R078	1-216-837-11	METAL CHIP	22K	5%	1/10W
R079	1-216-829-11	METAL CHIP	4.7K	5%	1/10W
R080	1-216-829-11	METAL CHIP	4.7K	5%	1/10W
R081	1-216-813-11	METAL CHIP	220	5%	1/10W
R082	1-216-815-11	METAL CHIP	330	5%	1/10W
R083	1-216-817-11	METAL CHIP	470	5%	1/10W
R084	1-216-819-11	METAL CHIP	680	5%	1/10W
R085	1-216-821-11	METAL CHIP	1K	5%	1/10W
R086	1-216-823-11	METAL CHIP	1.5K	5%	1/10W
R087	1-216-837-11	METAL CHIP	22K	5%	1/10W
R088	1-216-841-11	METAL CHIP	47K	5%	1/10W
R089	1-216-829-11	METAL CHIP	4.7K	5%	1/10W
R090	1-216-829-11	METAL CHIP	4.7K	5%	1/10W
R091	1-216-821-11	METAL CHIP	1K	5%	1/10W
R092	1-216-817-11	METAL CHIP	470	5%	1/10W
R093	1-216-821-11	METAL CHIP	1K	5%	1/10W
R094	1-216-809-11	METAL CHIP	100	5%	1/10W
R095	1-216-813-11	METAL CHIP	220	5%	1/10W
R096	1-216-813-11	METAL CHIP	220	5%	1/10W
R097	1-216-813-11	METAL CHIP	220	5%	1/10W
R098	1-216-813-11	METAL CHIP	220	5%	1/10W
R099	1-216-813-11	METAL CHIP	220	5%	1/10W
R100	1-216-813-11	METAL CHIP	220	5%	1/10W
R101	1-216-809-11	METAL CHIP	100	5%	1/10W
R102	1-216-809-11	METAL CHIP	100	5%	1/10W
R103	1-216-809-11	METAL CHIP	100	5%	1/10W
R104	1-216-825-11	METAL CHIP	2.2K	5%	1/10W
R105	1-216-809-11	METAL CHIP	100	5%	1/10W
R106	1-216-809-11	METAL CHIP	100	5%	1/10W
R107	1-216-809-11	METAL CHIP	100	5%	1/10W
R108	1-216-809-11	METAL CHIP	100	5%	1/10W
R109	1-216-833-11	METAL CHIP	10K	5%	1/10W
R110	1-216-841-11	METAL CHIP	47K	5%	1/10W

PANEL

Ref. No.	Part No.	Description			Remark
R111	1-216-851-11	METAL CHIP	330K	5%	1/10W
R112	1-216-833-11	METAL CHIP	10K	5%	1/10W
R113	1-216-811-11	METAL CHIP	150	5%	1/10W (E13)
R113	1-216-821-11	METAL CHIP	1K	5%	1/10W (E2,E51,MX)
R113	1-216-829-11	METAL CHIP	4.7K	5%	1/10W (E3,E12,E15,AUS,EA)
R114	1-216-815-11	METAL CHIP	330	5%	1/10W (E3,E15)
R114	1-216-819-11	METAL CHIP	680	5%	1/10W (E12)
R114	1-216-821-11	METAL CHIP	1K	5%	1/10W (EA)
R114	1-216-823-11	METAL CHIP	1.5K	5%	1/10W (AUS)
R114	1-216-829-11	METAL CHIP	4.7K	5%	1/10W (E2,E13,E51,MX)
R114	1-216-864-11	SHORT CHIP	0 (SP,MY,PH,TH)		
R115	1-216-829-11	METAL CHIP	4.7K	5%	1/10W (EXCEPT GNZ8D:E15)
R115	1-216-864-11	SHORT CHIP	0 (GNZ8D:E15)		
R116	1-216-811-11	METAL CHIP	150	5%	1/10W (GNZ7D)
R116	1-216-815-11	METAL CHIP	330	5%	1/10W (GNZ8D:EXCEPT E15)
R116	1-216-819-11	METAL CHIP	680	5%	1/10W (GNZ9D)
R117	1-216-833-11	METAL CHIP	10K	5%	1/10W
R118	1-216-809-11	METAL CHIP	100	5%	1/10W
R119	1-216-809-11	METAL CHIP	100	5%	1/10W
R120	1-216-841-11	METAL CHIP	47K	5%	1/10W
R121	1-216-809-11	METAL CHIP	100	5%	1/10W
R122	1-216-809-11	METAL CHIP	100	5%	1/10W
R123	1-216-809-11	METAL CHIP	100	5%	1/10W
R124	1-216-809-11	METAL CHIP	100	5%	1/10W
R125	1-216-809-11	METAL CHIP	100	5%	1/10W
R126	1-216-809-11	METAL CHIP	100	5%	1/10W
R127	1-216-809-11	METAL CHIP	100	5%	1/10W
R128	1-216-809-11	METAL CHIP	100	5%	1/10W
R129	1-216-809-11	METAL CHIP	100	5%	1/10W
R130	1-216-809-11	METAL CHIP	100	5%	1/10W
R131	1-216-841-11	METAL CHIP	47K	5%	1/10W
R132	1-216-841-11	METAL CHIP	47K	5%	1/10W
R133	1-216-841-11	METAL CHIP	47K	5%	1/10W
R134	1-216-841-11	METAL CHIP	47K	5%	1/10W
R135	1-216-841-11	METAL CHIP	47K	5%	1/10W
R136	1-216-841-11	METAL CHIP	47K	5%	1/10W
R137	1-216-841-11	METAL CHIP	47K	5%	1/10W
R138	1-216-841-11	METAL CHIP	47K	5%	1/10W
R139	1-216-841-11	METAL CHIP	47K	5%	1/10W
R140	1-216-841-11	METAL CHIP	47K	5%	1/10W
R141	1-216-841-11	METAL CHIP	47K	5%	1/10W
R142	1-216-841-11	METAL CHIP	47K	5%	1/10W
R143	1-216-841-11	METAL CHIP	47K	5%	1/10W
R144	1-216-841-11	METAL CHIP	47K	5%	1/10W
R145	1-216-841-11	METAL CHIP	47K	5%	1/10W
R146	1-216-841-11	METAL CHIP	47K	5%	1/10W
R147	1-216-841-11	METAL CHIP	47K	5%	1/10W
R148	1-216-841-11	METAL CHIP	47K	5%	1/10W
R149	1-216-841-11	METAL CHIP	47K	5%	1/10W
R150	1-216-841-11	METAL CHIP	47K	5%	1/10W
R151	1-216-841-11	METAL CHIP	47K	5%	1/10W
R152	1-216-864-11	SHORT CHIP	0		
R153	1-216-841-11	METAL CHIP	47K	5%	1/10W
R154	1-216-841-11	METAL CHIP	47K	5%	1/10W
R155	1-216-841-11	METAL CHIP	47K	5%	1/10W
R156	1-216-841-11	METAL CHIP	47K	5%	1/10W
R157	1-216-841-11	METAL CHIP	47K	5%	1/10W
R158	1-216-841-11	METAL CHIP	47K	5%	1/10W
R159	1-216-841-11	METAL CHIP	47K	5%	1/10W
R160	1-216-841-11	METAL CHIP	47K	5%	1/10W
R161	1-216-841-11	METAL CHIP	47K	5%	1/10W
R162	1-216-827-11	METAL CHIP	3.3K	5%	1/10W
R163	1-216-841-11	METAL CHIP	47K	5%	1/10W
R164	1-216-827-11	METAL CHIP	3.3K	5%	1/10W
R165	1-216-841-11	METAL CHIP	47K	5%	1/10W
R166	1-216-841-11	METAL CHIP	47K	5%	1/10W
R167	1-216-841-11	METAL CHIP	47K	5%	1/10W
R168	1-216-809-11	METAL CHIP	100	5%	1/10W
R169	1-216-809-11	METAL CHIP	100	5%	1/10W
R170	1-216-809-11	METAL CHIP	100	5%	1/10W
R171	1-216-809-11	METAL CHIP	100	5%	1/10W
R172	1-216-833-11	METAL CHIP	10K	5%	1/10W
R173	1-216-833-11	METAL CHIP	10K	5%	1/10W
R174	1-216-857-11	METAL CHIP	1M	5%	1/10W
R177	1-216-853-11	METAL CHIP	470K	5%	1/10W
R178	1-216-809-11	METAL CHIP	100	5%	1/10W
R179	1-216-809-11	METAL CHIP	100	5%	1/10W
R180	1-216-809-11	METAL CHIP	100	5%	1/10W
R181	1-216-809-11	METAL CHIP	100	5%	1/10W
R182	1-216-809-11	METAL CHIP	100	5%	1/10W
R183	1-216-809-11	METAL CHIP	100	5%	1/10W
R184	1-216-809-11	METAL CHIP	100	5%	1/10W
R185	1-216-809-11	METAL CHIP	100	5%	1/10W
R186	1-216-809-11	METAL CHIP	100	5%	1/10W
R187	1-216-809-11	METAL CHIP	100	5%	1/10W
R188	1-216-809-11	METAL CHIP	100	5%	1/10W
R189	1-216-809-11	METAL CHIP	100	5%	1/10W
R192	1-216-827-11	METAL CHIP	3.3K	5%	1/10W
R193	1-216-827-11	METAL CHIP	3.3K	5%	1/10W
R194	1-216-827-11	METAL CHIP	3.3K	5%	1/10W
R195	1-216-809-11	METAL CHIP	100	5%	1/10W
R197	1-216-809-11	METAL CHIP	100	5%	1/10W
R198	1-216-864-11	SHORT CHIP	0		
R199	1-216-821-11	METAL CHIP	1K	5%	1/10W
R200	1-216-809-11	METAL CHIP	100	5%	1/10W
		< SWITCH >			
S11	1-762-875-21	SWITCH, KEYBOARD (I/⏻)			
S12	1-762-875-21	SWITCH, KEYBOARD (EQ BAND/MEMORY)			
S13	1-762-875-21	SWITCH, KEYBOARD (ILLUMINATION)			
S14	1-762-875-21	SWITCH, KEYBOARD (PRESET EQ)			
S15	1-762-875-21	SWITCH, KEYBOARD (DIRECTION)			
S16	1-762-875-21	SWITCH, KEYBOARD (DISC 3)			
S17	1-762-875-21	SWITCH, KEYBOARD (DISC 2)			
S18	1-762-875-21	SWITCH, KEYBOARD (DISC 1)			

PANEL **SENSOR** **SIRCS** **STREAM** **SUBWOOFER**

Ref. No.	Part No.	Description			Remark
S19	1-762-875-21	SWITCH, KEYBOARD (DISC SKIP/EX-CHANGE)			
S20	1-762-875-21	SWITCH, KEYBOARD (⏏ OPEN/CLOSE)			
S31	1-762-875-21	SWITCH, KEYBOARD (DISPLAY)			
S32	1-762-875-21	SWITCH, KEYBOARD (TUNER/BAND)			
S33	1-762-875-21	SWITCH, KEYBOARD (TAPE A/B)			
S34	1-762-875-21	SWITCH, KEYBOARD (TV/SAT)			
S35	1-762-875-21	SWITCH, KEYBOARD (VIDEO)			
S36	1-762-875-21	SWITCH, KEYBOARD (CD SYNC)			
S37	1-762-875-21	SWITCH, KEYBOARD (REC PAUSE/START)			
S38	1-762-875-21	SWITCH, KEYBOARD (◀◀◀◀ TUNING –)			
S51	1-762-875-21	SWITCH, KEYBOARD (◀▶)			
S52	1-762-875-21	SWITCH, KEYBOARD (SOUND FIELD)			
S53	1-762-875-21	SWITCH, KEYBOARD (❚❚)			
S54	1-762-875-21	SWITCH, KEYBOARD (■)			
S55	1-762-875-21	SWITCH, KEYBOARD (▶▶▶▶ TUNING +)			
S56	1-762-875-21	SWITCH, KEYBOARD (GROOVE)			
S57	1-762-875-21	SWITCH, KEYBOARD (DVD)			
		< VIBRATOR >			
X101	1-795-482-11	VIBRATOR, CERAMIC (16MHz)			
X102	1-760-252-12	VIBRATOR, CRYSTAL (32.768kHz)			

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Ref. No.	Part No.	Description			Remark
	1-687-132-12	SENSOR BOARD ************			
		< CONNECTOR >			
CN731	1-785-329-21	PIN, CONNECTOR (LIGHT ANGLE) 3P			
		< IC >			
IC731	6-600-022-01	IC RPI-576			

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Ref. No.	Part No.	Description			Remark
		SIRCS BOARD ***********			
		< CAPACITOR >			
C148	1-162-974-11	CERAMIC CHIP	0.01uF		50V
		< CONNECTOR >			
CN143	1-816-423-11	SOCKET, CONNECTOR 3P			
		< IC >			
IC104	6-600-309-01	IC RPM7240-H9 (IR)			
		< JUMPER RESISTOR >			
JR102	1-216-864-11	SHORT CHIP	0		

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Ref. No.	Part No.	Description			Remark
		STREAM BOARD *************			
		< DIODE >			
D115	6-500-665-01	LED SELU6614C-STP5 (RING ILLUMINATION)			
D116	6-500-665-01	LED SELU6614C-STP5 (RING ILLUMINATION)			
D117	6-500-665-01	LED SELU6614C-STP5 (RING ILLUMINATION)			
D118	6-500-665-01	LED SELU6614C-STP5 (RING ILLUMINATION)			
D119	6-500-665-01	LED SELU6614C-STP5 (RING ILLUMINATION)			
D120	6-500-665-01	LED SELU6614C-STP5 (RING ILLUMINATION)			
		< RESISTOR >			
R069	1-216-833-11	METAL CHIP	10K	5%	1/10W
		< SWITCH >			
S101	1-786-289-11	SWITCH, DETECTION (⏮ – EQ + ⏭)			
S102	1-418-725-41	ENCODER, ROTARY (12 TYPE)			(MASTER VOLUME)

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Ref. No.	Part No.	Description			Remark
	A-1095-778-A	SUBWOOFER BOARD, COMPLETE			(GNZ9D:EXCEPT TH)
	A-1111-488-A	SUBWOOFER BOARD, COMPLETE (GNZ9D:TH) ****************************			
		< CAPACITOR >			
C671	1-126-964-11	ELECT	10uF	20%	50V (GNZ9D)
C672	1-162-294-31	CERAMIC	0.001uF	10%	50V (GNZ9D)
C673	1-162-286-31	CERAMIC	220PF	10%	50V (GNZ9D)
C674	1-126-968-11	ELECT	100uF	20%	50V (GNZ9D)
C676	1-136-497-81	FILM	0.1uF	5%	50V (GNZ9D)
C677	1-136-497-81	FILM	0.1uF	5%	50V (GNZ9D)
C678	1-128-576-11	ELECT	100uF	20%	63V (GNZ9D)
C679	1-128-582-11	ELECT	10uF	20%	100V (GNZ9D)
C680	1-162-199-31	CERAMIC	10PF	5%	50V (GNZ9D)
C681	1-128-552-51	ELECT	47uF	20%	63V (GNZ9D)
C682	1-126-968-11	ELECT	100uF	20%	50V (GNZ9D)
C683	1-128-582-11	ELECT	10uF	20%	100V (GNZ9D)
C685	1-126-968-11	ELECT	100uF	20%	50V (GNZ9D)
C691	1-128-576-11	ELECT	100uF	20%	63V (GNZ9D)
C692	1-128-576-11	ELECT	100uF	20%	63V (GNZ9D)
		< CONNECTOR >			
CN603	1-564-505-11	PLUG, CONNECTOR 2P (GNZ9D)			
		< DIODE >			
D671	8-719-991-33	DIODE 1SS133T-77 (GNZ9D)			
D672	8-719-991-33	DIODE 1SS133T-77 (GNZ9D)			
D681	8-719-110-36	DIODE RD13ESB2 (GNZ9D)			
D751	8-719-991-33	DIODE 1SS133T-77 (GNZ9D)			
		< IC >			
IC601	6-600-182-01	IC STK404-140S (GNZ9D)			

Ref. No.	Part No.	Description	Remark
		< TRANSISTOR >	
Q671	8-729-140-84	TRANSISTOR 2SC1841-PAFAEA (GNZ9D)	
Q672	8-729-140-82	TRANSISTOR 2SA988TP-PAFAEA (GNZ9D)	
Q673	8-729-140-84	TRANSISTOR 2SC1841-PAFAEA (GNZ9D)	
Q682	8-729-029-66	TRANSISTOR DTC114ESA (GNZ9D)	
Q683	8-729-119-78	TRANSISTOR 2SC2785-HFE (GNZ9D)	
		< RESISTOR >	
R671	1-247-831-11	CARBON 1K 5%	1/4W (GNZ9D)
R672	1-247-871-11	CARBON 47K 5%	1/4W (GNZ9D)
R673	1-249-411-11	CARBON 330 5%	1/4W (GNZ9D)
R674	1-247-871-11	CARBON 47K 5%	1/4W (GNZ9D)
⚠R675	1-208-602-11	METAL 0.22X2	2W F (GNZ9D)
⚠R676	1-208-602-11	METAL 0.22X2	2W F (GNZ9D)
R677	1-247-831-11	CARBON 1K 5%	1/4W (GNZ9D)
R678	1-249-431-11	CARBON 15K 5%	1/4W (GNZ9D)
R679	1-247-879-11	CARBON 100K 5%	1/4W (GNZ9D)
R680	1-260-076-11	CARBON 10 5%	1/2W F (GNZ9D)
⚠R681	1-212-881-11	FUSIBLE 100 5%	1/4W F (GNZ9D)
R682	1-249-428-11	CARBON 8.2K 5%	1/4W (GNZ9D)
R683	1-249-428-11	CARBON 8.2K 5%	1/4W (GNZ9D)
⚠R684	1-202-972-61	FUSIBLE 1 5%	1/4W F (GNZ9D)
R685	1-249-439-11	CARBON 68K 5%	1/4W (GNZ9D)
⚠R686	1-216-457-00	METAL OXIDE 1.2K 5%	2W F (GNZ9D)
R687	1-249-429-11	CARBON 10K 5%	1/4W (GNZ9D)
R688	1-247-871-11	CARBON 47K 5%	1/4W (GNZ9D)
R689	1-249-429-11	CARBON 10K 5%	1/4W (GNZ9D)
R690	1-249-429-11	CARBON 10K 5%	1/4W (GNZ9D)
R693	1-249-435-11	CARBON 33K 5%	1/4W (GNZ9D)
		< RELAY >	
RY601	1-515-920-11	RELAY (24V) (GNZ9D)	
**			

Ref. No.	Part No.	Description	Remark
		SUB TRANS BOARD ***************	
	1-533-217-41	HOLDER, FUSE (EXCEPT E12,E13,AUS,TH)	
		< CAPACITOR >	
C902	1-164-159-11	CERAMIC 0.1uF	50V
C903	1-164-159-11	CERAMIC 0.1uF	50V
C905	1-162-306-11	CERAMIC 0.01uF 20%	16V
		< CONNECTOR >	
CN901	1-564-321-00	PIN, CONNECTOR (3.96mm PITCH) 2P	
CN902	1-785-314-11	PIN, CONNECTOR (STRAIGHT) 2P	
		< DIODE >	
D901	8-719-991-33	DIODE 1SS133T-77	
		< COIL >	
L901	1-414-189-31	INDUCTOR 100uH	
		< TRANSISTOR >	
Q901	8-729-119-78	TRANSISTOR 2SC2785-HFE	
		< RESISTOR >	
R901	1-249-429-11	CARBON 10K 5%	1/4W
R904	1-249-393-11	CARBON 10 5%	1/4W
		< RELAY >	
⚠RY901	1-755-324-11	RELAY	
		< SWITCH >	
⚠S901	1-786-055-21	SELECTOR, VOLTAGE (VOLTAGE SELECTOR) (GNZ7D:EXCEPT TH/GNZ8D:EXCEPT E12,E13,TH/ GNZ9D:EXCEPT E12,E13,AUS,MX,TH)	
**			
	A-1095-774-A	SURROUND AMP BOARD, COMPLETE	(GNZ9D:EXCEPT TH)
	A-1095-775-A	SURROUND AMP BOARD, COMPLETE	(GNZ8D:EXCEPT TH)
	A-1111-486-A	SURROUND AMP BOARD, COMPLETE	(GNZ9D:TH)
	A-1111-487-A	SURROUND AMP BOARD, COMPLETE	(GNZ8D:TH)
		********************	
	7-685-872-09	SCREW +BVTT 3X8 (S) (GNZ8D/GNZ9D)	
		< CAPACITOR >	
C501	1-126-964-11	ELECT 10uF 20%	50V (GNZ8D/GNZ9D)
C502	1-162-294-31	CERAMIC 0.001uF 10%	50V (GNZ8D/GNZ9D)
C503	1-162-286-31	CERAMIC 220PF 10%	50V (GNZ8D/GNZ9D)
C504	1-126-964-11	ELECT 10uF 20%	50V (GNZ8D/GNZ9D)
C506	1-136-497-81	FILM 0.1uF 5%	50V (GNZ8D/GNZ9D)

Ref. No.	Part No.	Description	Remark
C507	1-136-497-81	FILM 0.1uF 5%	50V (GNZ8D/GNZ9D)
C508	1-126-968-11	ELECT 100uF 20%	50V (GNZ8D/GNZ9D)
C510	1-162-199-31	CERAMIC 10PF 5%	50V (GNZ8D/GNZ9D)
C511	1-162-199-31	CERAMIC 10PF 5%	50V (GNZ8D/GNZ9D)
C512	1-162-199-31	CERAMIC 10PF 5%	50V (GNZ8D/GNZ9D)
C520	1-126-933-11	ELECT 100uF 20%	16V (GNZ8D/GNZ9D)
C521	1-126-933-11	ELECT 100uF 20%	16V (GNZ8D/GNZ9D)
C541	1-126-964-11	ELECT 10uF 20%	50V (GNZ8D/GNZ9D)
C542	1-162-294-31	CERAMIC 0.001uF 10%	50V (GNZ8D/GNZ9D)
C543	1-162-286-31	CERAMIC 220PF 10%	50V (GNZ8D/GNZ9D)
C544	1-126-964-11	ELECT 10uF 20%	50V (GNZ8D/GNZ9D)
C546	1-136-497-81	FILM 0.1uF 5%	50V (GNZ8D/GNZ9D)
C547	1-136-497-81	FILM 0.1uF 5%	50V (GNZ8D/GNZ9D)
C551	1-126-964-11	ELECT 10uF 20%	50V (GNZ8D/GNZ9D)
C552	1-162-294-31	CERAMIC 0.001uF 10%	50V (GNZ8D/GNZ9D)
C553	1-162-286-31	CERAMIC 220PF 10%	50V (GNZ8D/GNZ9D)
C554	1-126-964-11	ELECT 10uF 20%	50V (GNZ8D/GNZ9D)
C556	1-136-497-81	FILM 0.1uF 5%	50V (GNZ8D/GNZ9D)
C557	1-136-497-81	FILM 0.1uF 5%	50V (GNZ8D/GNZ9D)
C558	1-126-968-11	ELECT 100uF 20%	50V (GNZ8D/GNZ9D)
C573	1-137-844-21	ELECT 2200uF 20%	42V (GNZ8D/GNZ9D)
C574	1-137-844-21	ELECT 2200uF 20%	42V (GNZ8D/GNZ9D)
		< CONNECTOR >	
CN502	1-785-318-11	PIN, CONNECTOR (STRAIGHT) 6P	(GNZ8D/GNZ9D)
CN572	1-564-506-11	PLUG, CONNECTOR 3P (GNZ8D/GNZ9D)	
		< DIODE >	
D501	8-719-991-33	DIODE 1SS133T-77 (GNZ8D/GNZ9D)	
D520	8-719-109-85	DIODE RD5.1ESB2 (GNZ8D/GNZ9D)	
D541	8-719-991-33	DIODE 1SS133T-77 (GNZ8D/GNZ9D)	
D542	8-719-991-33	DIODE 1SS133T-77 (GNZ8D/GNZ9D)	
D551	8-719-991-33	DIODE 1SS133T-77 (GNZ8D/GNZ9D)	
D552	8-719-991-33	DIODE 1SS133T-77 (GNZ8D/GNZ9D)	
D571	8-719-510-68	DIODE D5SBA204101 (GNZ8D/GNZ9D)	
D581	8-719-991-33	DIODE 1SS133T-77 (GNZ8D/GNZ9D)	
D582	8-719-991-33	DIODE 1SS133T-77 (GNZ8D/GNZ9D)	
D587	8-719-991-33	DIODE 1SS133T-77 (GNZ8D/GNZ9D)	

Ref. No.	Part No.	Description	Remark
D588	8-719-991-33	DIODE 1SS133T-77 (GNZ8D/GNZ9D)	
D589	8-719-991-33	DIODE 1SS133T-77 (GNZ8D/GNZ9D)	
D591	8-719-991-33	DIODE 1SS133T-77 (GNZ9D)	
		< IC >	
IC501	6-707-960-01	IC STK433-270 (GNZ8D/GNZ9D)	
		< TRANSISTOR >	
Q501	8-729-140-84	TRANSISTOR 2SC1841-PAFAEA	(GNZ8D/GNZ9D)
Q516	8-729-140-84	TRANSISTOR 2SC1841-PAFAEA	(GNZ8D/GNZ9D)
Q517	8-729-119-78	TRANSISTOR 2SC2785-HFE (GNZ8D/GNZ9D)	
Q520	8-729-119-78	TRANSISTOR 2SC2785-HFE (GNZ8D/GNZ9D)	
Q541	8-729-140-84	TRANSISTOR 2SC1841-PAFAEA	(GNZ8D/GNZ9D)
Q551	8-729-140-84	TRANSISTOR 2SC1841-PAFAEA	(GNZ8D/GNZ9D)
Q581	8-729-026-39	TRANSISTOR 2SA933AS-QT (GNZ8D/GNZ9D)	
Q584	8-729-029-66	TRANSISTOR DTC114ESA (GNZ8D/GNZ9D)	
		< RESISTOR >	
R501	1-247-831-11	CARBON 1K 5%	1/4W (GNZ8D/GNZ9D)
R502	1-247-871-11	CARBON 47K 5%	1/4W (GNZ8D/GNZ9D)
R503	1-249-415-11	CARBON 680 5%	1/4W (GNZ9D)
R503	1-249-416-11	CARBON 820 5%	1/4W (GNZ8D)
R504	1-247-871-11	CARBON 47K 5%	1/4W (GNZ8D/GNZ9D)
⚠R505	1-208-602-11	METAL 0.22X2	2W F (GNZ8D/GNZ9D)
R507	1-247-831-11	CARBON 1K 5%	1/4W (GNZ8D/GNZ9D)
R508	1-249-431-11	CARBON 15K 5%	1/4W (GNZ8D/GNZ9D)
R509	1-247-879-11	CARBON 100K 5%	1/4W (GNZ8D/GNZ9D)
⚠R510	1-260-076-11	CARBON 10 5%	1/2W F (GNZ8D/GNZ9D)
⚠R511	1-212-881-11	FUSIBLE 100 5%	1/4W F (GNZ8D/GNZ9D)
R514	1-249-427-11	CARBON 6.8K 5%	1/4W (GNZ8D/GNZ9D)
R515	1-249-429-11	CARBON 10K 5%	1/4W (GNZ8D/GNZ9D)
R516	1-249-429-11	CARBON 10K 5%	1/4W (GNZ8D/GNZ9D)
R517	1-249-429-11	CARBON 10K 5%	1/4W (GNZ8D/GNZ9D)
R518	1-249-429-11	CARBON 10K 5%	1/4W (GNZ8D/GNZ9D)
⚠R520	1-202-972-61	FUSIBLE 1 5%	1/4W F (GNZ8D/GNZ9D)
⚠R521	1-202-972-61	FUSIBLE 1 5%	1/4W F (GNZ8D/GNZ9D)
R522	1-249-429-11	CARBON 10K 5%	1/4W (GNZ8D/GNZ9D)
R531	1-247-871-11	CARBON 47K 5%	1/4W (GNZ8D/GNZ9D)

Ref. No.	Part No.	Description			Remark
R532	1-247-873-11	CARBON	56K	5%	1/4W (GNZ8D/GNZ9D)
R533	1-249-439-11	CARBON	68K	5%	1/4W (GNZ8D/GNZ9D)
R541	1-247-831-11	CARBON	1K	5%	1/4W (GNZ8D/GNZ9D)
R542	1-247-871-11	CARBON	47K	5%	1/4W (GNZ8D/GNZ9D)
R543	1-249-416-11	CARBON	820	5%	1/4W (GNZ9D)
R543	1-247-831-11	CARBON	1K	5%	1/4W (GNZ8D)
R544	1-247-871-11	CARBON	47K	5%	1/4W (GNZ8D/GNZ9D)
⚠R545	1-208-602-11	METAL	0.22X2		2W F (GNZ8D/GNZ9D)
R547	1-247-831-11	CARBON	1K	5%	1/4W (GNZ8D/GNZ9D)
R548	1-249-431-11	CARBON	15K	5%	1/4W (GNZ8D/GNZ9D)
R549	1-247-879-11	CARBON	100K	5%	1/4W (GNZ8D/GNZ9D)
⚠R550	1-260-076-11	CARBON	10	5%	1/2W F (GNZ8D/GNZ9D)
R551	1-247-831-11	CARBON	1K	5%	1/4W (GNZ8D/GNZ9D)
R552	1-247-871-11	CARBON	47K	5%	1/4W (GNZ8D/GNZ9D)
R553	1-249-415-11	CARBON	680	5%	1/4W (GNZ9D)
R553	1-249-416-11	CARBON	820	5%	1/4W (GNZ8D)
R554	1-247-871-11	CARBON	47K	5%	1/4W (GNZ8D/GNZ9D)
⚠R555	1-208-602-11	METAL	0.22X2		2W F (GNZ8D/GNZ9D)
R557	1-247-831-11	CARBON	1K	5%	1/4W (GNZ8D/GNZ9D)
R558	1-249-431-11	CARBON	15K	5%	1/4W (GNZ8D/GNZ9D)
R559	1-247-879-11	CARBON	100K	5%	1/4W (GNZ8D/GNZ9D)
⚠R560	1-260-076-11	CARBON	10	5%	1/2W F (GNZ8D/GNZ9D)
⚠R561	1-212-881-11	FUSIBLE	100	5%	1/4W F (GNZ8D/GNZ9D)
R573	1-247-879-11	CARBON	100K	5%	1/4W (GNZ8D/GNZ9D)
R574	1-247-879-11	CARBON	100K	5%	1/4W (GNZ8D/GNZ9D)
R587	1-247-871-11	CARBON	47K	5%	1/4W (GNZ8D/GNZ9D)
R588	1-247-871-11	CARBON	47K	5%	1/4W (GNZ8D/GNZ9D)
R589	1-247-871-11	CARBON	47K	5%	1/4W (GNZ8D/GNZ9D)
R590	1-249-429-11	CARBON	10K	5%	1/4W (GNZ8D/GNZ9D)
R593	1-247-871-11	CARBON	47K	5%	1/4W (GNZ9D)
⚠R594	1-215-888-00	METAL OXIDE	220	5%	2W F (GNZ8D)

Ref. No.	Part No.	Description			Remark
⚠R594	1-216-455-11	METAL OXIDE	560	5%	2W F (GNZ9D)
R597	1-247-831-11	CARBON	1K	5%	1/4W (GNZ8D/GNZ9D)
R598	1-247-863-11	CARBON	22K	5%	1/4W (GNZ8D/GNZ9D)
⚠R599	1-215-888-00	METAL OXIDE	220	5%	2W F (GNZ8D)
⚠R599	1-216-455-11	METAL OXIDE	560	5%	2W F (GNZ9D)
		< RELAY >			
RY581	1-515-920-11	RELAY (24V) (GNZ8D/GNZ9D)			
RY582	1-515-920-11	RELAY (24V) (GNZ8D/GNZ9D)			
		< THERMISTOR >			
TH501	1-807-796-11	THERMISTOR 10K (GNZ8D/GNZ9D)			
		< TERMINAL BOARD >			
TM501	1-694-674-22	TERMINAL BOARD (6P) (SURROUND SPEAKER)			(GNZ8D)
TM501	1-694-914-11	TERMINAL BOARD (8P) (SURROUND SPEAKER)			(GNZ9D)
**					
	1-687-669-12	SW BOARD *********			
		< SWITCH >			
S751	1-786-514-11	SWITCH, LEVER (SLIDE)			(OPEN/CLOSE DETECT)
**					
		TRANS BOARD ************			
	1-533-217-41	HOLDER, FUSE			
		< CAPACITOR >			
C913	1-126-968-11	ELECT	100uF	20%	50V
C915	1-164-159-11	CERAMIC	0.1uF		50V
C918	1-128-576-11	ELECT	100uF	20%	63V
		< CONNECTOR >			
* CN913	1-564-518-11	PLUG, CONNECTOR 3P (GNZ8D/GNZ9D)			
* CN914	1-564-525-11	PLUG, CONNECTOR 10P			
* CN915	1-564-519-11	PLUG, CONNECTOR 4P			
		< DIODE >			
D911	6-500-522-11	DIODE 10EDB40-TA2B5			
D912	8-719-982-19	DIODE MTZJ-30A			
D913	8-719-118-67	DIODE RD6.2F-T7B3			
		< TRANSISTOR >			
Q902	8-729-140-97	TRANSISTOR 2SB734-34			
		< RESISTOR >			
⚠R911	1-217-637-00	FUSIBLE	1	5%	1/4W F
R914	1-249-429-11	CARBON	10K	5%	1/4W

Ref. No.	Part No.	Description			Remark
R915	1-247-807-31	CARBON	100	5%	1/4W
R916	1-247-807-31	CARBON	100	5%	1/4W
R919	1-249-429-11	CARBON	10K	5%	1/4W
**					
	A-1095-819-A	VIDEO BOARD, COMPLETE (EXCEPT TH)			
	A-1111-533-A	VIDEO BOARD, COMPLETE (TH) *********************			
		< CAPACITOR >			
C801	1-104-655-11	ELECT	470uF	20%	6.3V
C802	1-162-306-11	CERAMIC	0.01uF	20%	16V
C803	1-104-658-11	ELECT	100uF	20%	10V
C804	1-162-306-11	CERAMIC	0.01uF	20%	16V
C811	1-126-960-11	ELECT	1uF	20%	50V
C812	1-126-960-11	ELECT	1uF	20%	50V
C813	1-126-960-11	ELECT	1uF	20%	50V
C814	1-126-960-11	ELECT	1uF	20%	50V
C815	1-126-960-11	ELECT	1uF	20%	50V
C816	1-126-960-11	ELECT	1uF	20%	50V
C818	1-126-960-11	ELECT	1uF	20%	50V
C819	1-126-916-11	ELECT	1000uF	20%	6.3V
C820	1-126-916-11	ELECT	1000uF	20%	6.3V
C821	1-126-916-11	ELECT	1000uF	20%	6.3V
C822	1-126-916-11	ELECT	1000uF	20%	6.3V
C823	1-164-159-11	CERAMIC	0.1uF		50V
C824	1-126-916-11	ELECT	1000uF	20%	6.3V
C825	1-162-282-31	CERAMIC	100PF	10%	50V
C831	1-162-306-11	CERAMIC	0.01uF	20%	16V
C832	1-126-960-11	ELECT	1uF	20%	50V
C833	1-162-282-31	CERAMIC	100PF	10%	50V
C835	1-104-658-11	ELECT	100uF	20%	10V
C840	1-162-282-31	CERAMIC	100PF	10%	50V
C841	1-162-282-31	CERAMIC	100PF	10%	50V
C842	1-162-282-31	CERAMIC	100PF	10%	50V
C843	1-162-282-31	CERAMIC	100PF	10%	50V
C844	1-162-282-31	CERAMIC	100PF	10%	50V
C850	1-126-942-61	ELECT	1000uF	20%	25V
C851	1-164-159-11	CERAMIC	0.1uF		50V
C852	1-117-245-11	ELECT	330uF	20%	6.3V
C853	1-126-960-11	ELECT	1uF	20%	50V
C854	1-164-159-11	CERAMIC	0.1uF		50V
C856	1-117-245-11	ELECT	330uF	20%	6.3V
C862	1-117-317-11	ELECT	1000uF	20%	25V
C863	1-128-646-11	ELECT	1000uF	20%	6.3V
C865	1-117-245-11	ELECT	330uF	20%	6.3V
C866	1-117-245-11	ELECT	330uF	20%	6.3V
C872	1-164-159-11	CERAMIC	0.1uF		50V
C873	1-104-658-11	ELECT	100uF	20%	10V
		< CONNECTOR >			
CN801	1-779-281-11	CONNECTOR, FFC (LIF(NON-ZIF)) 13P			
* CN851	1-564-728-11	PIN, CONNECTOR (SMALL TYPE) 12P			
		< DIODE >			
D861	8-719-210-21	DIODE 11EQS04			

Ref. No.	Part No.	Description			Remark
		< GROUND TERMINAL >			
EP801	1-537-771-21	TERMINAL BOARD, GROUND			
EP851	1-537-771-21	TERMINAL BOARD, GROUND			
		< COIL >			
FB831	1-412-473-21	INDUCTOR (SMALL TYPE)			
		< IC >			
IC801	6-705-602-01	IC MM1623BFBE			
IC802	6-703-622-01	IC MM1508XNRE			
IC851	6-705-463-01	IC BA33BC0T			
IC861	8-759-474-09	IC SI-8050S-LF1101			
		< JACK >			
J801	1-817-449-11	JACK, PIN 3P (COMPONENT VIDEO OUT)			
J802	1-794-970-11	JACK, PIN 1P (VIDEO OUT)			
		< CONNECTOR >			
J803	1-784-248-11	CONNECTOR (ROUND TYPE) (S VIDEO OUT)			
		< COIL >			
L801	1-410-470-11	INDUCTOR	10uH		
L802	1-410-470-11	INDUCTOR	10uH		
L861	1-456-513-11	INDUCTOR	150uH		
L862	1-414-741-11	INDUCTOR	10uH		
		< TRANSISTOR >			
Q861	8-729-029-66	TRANSISTOR DTC114ESA			
Q870	8-729-029-66	TRANSISTOR DTC114ESA			
		< RESISTOR >			
R800	1-247-807-31	CARBON	100	5%	1/4W
R803	1-249-429-11	CARBON	10K	5%	1/4W
R804	1-249-429-11	CARBON	10K	5%	1/4W
R805	1-249-429-11	CARBON	10K	5%	1/4W
R806	1-249-429-11	CARBON	10K	5%	1/4W
R810	1-247-804-11	CARBON	75	5%	1/4W
R811	1-247-804-11	CARBON	75	5%	1/4W
R812	1-247-804-11	CARBON	75	5%	1/4W
R813	1-247-804-11	CARBON	75	5%	1/4W
R814	1-247-804-11	CARBON	75	5%	1/4W
R815	1-247-804-11	CARBON	75	5%	1/4W
R816	1-247-804-11	CARBON	75	5%	1/4W
R817	1-247-804-11	CARBON	75	5%	1/4W
R818	1-247-879-11	CARBON	100K	5%	1/4W
R831	1-247-807-31	CARBON	100	5%	1/4W
R870	1-247-807-31	CARBON	100	5%	1/4W
R871	1-249-429-11	CARBON	10K	5%	1/4W
**					
		MISCELLANEOUS **************			
6	1-828-956-11	WIRE (FLAT TYPE) (9 CORE)			
55	1-828-977-11	WIRE (FLAT TYPE) (13 CORE)			
56	1-828-971-11	WIRE (FLAT TYPE) (13 CORE)			
57	1-829-041-11	WIRE (FLAT TYPE) (27 CORE)			
58	1-797-246-11	DECK, MECHANISM			

Ref. No.	Part No.	Description	Remark
59	1-828-332-11	WIRE (FLAT TYPE) (13 CORE)	
202	1-828-344-11	WIRE (FLAT TYPE) (15 CORE) (GNZ8D/GNZ9D)	
202	1-828-354-11	WIRE (FLAT TYPE) (17 CORE) (GNZ7D)	
203	1-828-330-11	WIRE (FLAT TYPE) (13 CORE)	
⚠254	1-696-847-22	CORD, POWER (AUS)	
⚠254	1-777-071-23	CORD, POWER (E12,E13,E51,EA,SP,PH)	
⚠254	1-824-818-21	CORD, POWER (WITH CONNECTOR) (TH)	
⚠254	1-827-226-11	CORD, POWER (E2,E3,E15,MX)	
⚠255	1-468-737-21	POWER, SWITCHING	
256	1-500-386-11	FILTER, CLAMP (FERRITE CORE) (AUS,EA)	
352	1-776-182-11	WIRE (FLAT TYPE) (5 CORE)	
421	1-828-771-11	WIRE (FLAT TYPE) (24 CORE)	
⚠422	8-820-291-02	OPTICAL PICK-UP (KHM-310CAB/C2RP)	
⚠F910	1-532-505-32	FUSE (5A/250V) (GNZ7D:EXCEPT E12,E13,TH)	
⚠F910	1-533-949-33	FUSE, CYLINDRICAL (TIME LUG) (8A/250V) (GNZ8D:EXCEPT E12,E13,TH/GNZ9D:EXCEPT E12,E13,AUS,TH)	
⚠F914	1-532-506-33	FUSE (6.3A/250V) (GNZ7D/GNZ8D)	
⚠F914	1-533-949-33	FUSE, CYLINDRICAL (TIME LUG) (8A/250V)	(GNZ9D)
⚠F915	1-532-506-33	FUSE (6.3A/250V) (GNZ7D/GNZ8D)	
⚠F915	1-533-949-33	FUSE, CYLINDRICAL (TIME LUG) (8A/250V)	(GNZ9D)
⚠F916	1-532-506-33	FUSE (6.3A/250V) (GNZ8D/GNZ9D)	
⚠F917	1-532-506-33	FUSE (6.3A/250V) (GNZ8D/GNZ9D)	
⚠F918	1-532-504-33	FUSE (4A/250V) (GNZ7D)	
⚠F918	1-532-505-33	FUSE (5A/250V) (GNZ8D/GNZ9D)	
⚠F919	1-532-504-33	FUSE (4A/250V)	
FAN901	1-763-072-11	FAN, DC	
FAN902	1-787-336-11	FAN, DC (GNZ9D)	
IC941	8-759-198-03	IC PQ09RF21J00H	
IC942	8-759-701-59	IC NJM78M09FA	
IC943	8-759-701-59	IC NJM78M09FA	
IC945	6-703-546-01	IC TA7804LS	
M741	A-4723-963-A	MOTOR ASSY, TABLE (TABLE)	
M751	A-4736-655-A	MOTOR ASSY, LOADING (LOADING)	
RE701	1-477-680-12	ENCODER, ROTARY	(DISC TRAY ADDRESS DETECT)
⚠T911	1-443-174-11	TRANSFORMER, POWER (GNZ7D:EXCEPT EA)	
⚠T911	1-443-175-11	TRANSFORMER, POWER (GNZ7D:EA)	
⚠T911	1-443-352-11	TRANSFORMER, POWER (GNZ8D:EXCEPT EA)	
⚠T911	1-443-362-11	TRANSFORMER, POWER (GNZ8D:EA)	
⚠T911	1-443-690-11	TRANSFORMER, POWER	(GNZ9D:EXCEPT EA,MX)
⚠T911	1-443-691-11	TRANSFORMER, POWER (GNZ9D:EA,MX)	
TN1	1-693-671-11	TUNER (TM-10E)	
		ACCESSORIES ************	
⚠	1-770-019-51	ADAPTOR, CONVERSION PLUG (EA)	
⚠	1-785-072-12	ADAPTOR, CONVERSION (E3,E15)	
⚠	1-785-072-21	ADAPTOR, CONVERSION (E51,SP,MY,PH)	

REVISION HISTORY

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Also, clicking the version at the upper on the revised page allows you to jump to the next revised page.

Ver.	Date	Description of Revision
1.0	2005. 04	New